PRELIMINARY SITE CHARACTERIZATION AND SELF-IMPLEMENTING CLEANUP PLAN PAWTUCKET 1 NO. 107 SUBSTATION - CONTROL HOUSE 6 THORNTON STREET PAWTUCKET, RHODE ISLAND

SUBMITTED TO:

United States Environmental Protection Agency 5 Post Office Square, Suite 100 Mail Code: LCRD07-2 Boston, Massachusetts 02109-3912

ON BEHALF OF:

The Narragansett Electric Company William Howard Principal Environmental Scientist 280 Melrose Street Providence, Rhode Island 02907

PREPARED BY:



April 14, 2022 Coneco Project No. 5675.F.101

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Environmental Ecological Survey Civil



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United States Environmental Protection Agency 5 Post Office Square, Suite 100 Mail Code: LCRD07-2 Boston, Massachusetts 02109-3912

RE: **Preliminary Site Characterization and Self-Implementing Cleanup Plan** Pawtucket 1 No. 107 Substation - Control House 6 Thornton Street Pawtucket, Rhode Island

To Whom It May Concern:

On behalf of The Narragansett Electric Company, Coneco Engineers & Scientists, Incorporated respectfully submits the following Preliminary Site Characterization and Self-Implementing Cleanup Plan to address polychlorinated biphenyl (PCB) concentrations identified in building materials associated with the Control House situated within the Pawtucket 1 No. 107 Substation, located at 6 Thornton Street in Pawtucket, Rhode Island. The proposed plan is intended to dispose of PCB Remediation Waste in accordance with 40 CFR 761.61(a) during the proposed demolition of the Control House. Procedures cited in this report are consistent with those specified in the Toxic Substances Control Act, 40 CFR 761 and the Rhode Island Department of Environmental Management *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases*.

If you have any questions or require additional information regarding this submittal, please contact the undersigned.

Respectfully Submitted, Coneco Engineers & Scientists, Incorporated

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1.0 INTRODUCTION

The following Preliminary Site Characterization and Self-Implementing Cleanup Plan has been prepared by Coneco Engineers & Scientists, Incorporated (Coneco) and is submitted on behalf of The Narragansett Electric Company (TNEC) to address polychlorinated biphenyl (PCB) concentrations identified in building materials at the Pawtucket 1 No. 107 Substation, located at 6 Thornton Street in Pawtucket, Rhode Island, hereinafter the "Site." The "Property" is defined as the approximately 10.3-acre parcel owned by TNEC identified as Lot 645 on Pawtucket Assessor's Plat Map 65. The north-central portion of the Property is occupied by the Pawtucket 1 No. 107 Substation (the Site). The five-story brick control house at the Site in which regulated concentrations of PCBs have been identified in building materials, and the subject of this investigation, is hereinafter defined as the "Control House."

Characterization activities were initiated at the request of TNEC in advance of the proposed demolition of the existing Control House. The purpose of initial characterization activities was to establish if building materials associated with the Control House contain certain hazardous materials which may be regulated for disposal in accordance with applicable state and/or federal regulations. Findings of initial characterization activities identified PCB Remediation Waste in accessible building materials associated with the Control House. At this time, the Control House is utilized for substation operations and contains energized electrical equipment. The Control House is scheduled to be de-energized in the Winter of 2022 and electrical equipment will be subsequently removed. At that time, Coneco will conduct additional assessment in previously inaccessible areas of the Control House (i.e., inaccessible due to safety considerations relative to energized electrical equipment). The purpose of this report is to document initial assessment findings, present a plan and timeline for future sampling activities, and outline a conceptual remedial plan to address PCB Remediation Waste associated with the Control House during proposed demolition activities. It is anticipated that a Final Site Characterization and Self-Implementing Cleanup Plan will be submitted to the United States Environmental Protection Agency (EPA) for review and approval in January 2023, prior to the initiation of remedial and/or demolition activities associated with the Control House. For a detailed timeline and schedule of anticipated events, please reference the table in Section 7.0.

The activities and findings detailed herein are provided to document assessment activities, describe the nature and extent of materials which are subject to the management and disposal requirements of the Toxic Substances Control Act (TSCA), 40 CFR 761, and provide details in support of the proposed Self-Implementing Cleanup Plan. Procedures and regulations cited in this report are consistent with those included in 40 CFR 761, and presented by the EPA and the Rhode Island Department of Environmental Management (RIDEM) *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (Remediation Regulations).

2.0 GENERAL SITE INFORMATION

2.1 Site Contact Information

a) The contact information for the Responsible Party performing the Self-Implementing Cleanup is as follows:

The Narragansett Electric Company Mr. William Howard Principal Environmental Scientist 280 Melrose Street Providence, Rhode Island 02907 Tel: (401) 784-7490 E-mail: <u>William.Howard@nationalgrid.com</u>

b) The contact information for the party submitting this Preliminary Site Characterization and Self-Implementing Cleanup Plan is as follows:

Coneco Engineers & Scientists, Incorporated Mr. John Aevazelis Principal Environmental Scientist 4 First Street Bridgewater, Massachusetts 02324 Phone: (508) 962-7423 E-mail: Jaevazelis@coneco.com

c) The contact information for the environmental services contractor conducting the demolition work and PCB waste transportation and disposal, as well as preparing the contractor work plan detailing the means and methods for removal and disposal activities, will be included in the Final Site Characterization and Self Implementing Cleanup Plan.

The certification statement required by 40 CFR 761.61(a)(3)(E) is included as Appendix 1.

2.2 Site Description

The Property consists of approximately 10.3 acres (448,668 square-feet) with the northcentral portion of the property occupied by the Pawtucket 1 No. 107 Substation (the Site), which is bounded by a gated and locked chain-link fence topped with barbed wire. The fivestory Control House, consisting of an approximately 9,000 square-foot building footprint, is located north of the outdoor electrical equipment and structures within the Site. The Site can be accessed from the west via a gate at the corner of Merry Street and Thornton Street. Access to the substation is restricted to TNEC and authorized subcontractors. The Site is located within a mixed-use industrial and residential portion of Pawtucket, Rhode Island. The Francis J. Varieur Elementary School is located approximately 550 feet southwest of the Control House, and the International Charter School/ Blackstone Academy Charter School is located approximately 750 feet northwest of the Control House. A Site Locus Map and Aerial Image are provided for reference as Figures 1 and 2, respectively. Photographs of the Control House and relevant areas of investigation are included as Appendix 2. The Property was formerly used by the Pawtucket Gas Company as an electric power plant and manufactured gas plant (MGP), referred to as the Tidewater Gas Works. The MGP generated gas using coal and coke and operated from the 1880s until the late 1960s. In 1890, the Pawtucket Gas Company began building the Pawtucket 1 Station to generate electricity. The power station, operating from the early 1890s until 1975, used coal, petroleum-based products, and residual by-product tars from the MGP station to generate electricity. TNEC is currently performing remedial activities (as part of a RIDEM-approved Remedial Action Work Plan [RAWP]) to address contaminated soil and groundwater at the Property. Remedial actions include source area removals, installation of an engineered cap, construction of a subsurface containment wall to mitigate migration of non-aqueous phase liquid (NAPL) to the Seekonk River, and the recording of an Environmental Land Use Restriction (ELUR) to limit future uses of the Property. The RIDEM Case No. for this work is SR-26-0934A (formerly RIDEM Case No. 95-022). The northern abutting property to the Control House is currently undergoing significant remediation and construction associated with the redevelopment of the property as a recreational area including a soccer stadium.

The Control House was constructed in 1907 as part of the electric power plant and has undergone multiple additions and renovations. The five-story building has a footprint of approximately 9,000 square feet (60 feet wide by 150 feet long). The building was constructed on battered stone masonry and brick masonry foundations with approximately 16-inch-thick brick masonry exterior walls and a concrete slab roof covered by asphaltic roofing membrane. The eastern half of the building comprises a large, full-height space that housed the former power plant "Turbine Room". This space contains a gantry crane & crane rails supported by a row of steel columns that are constructed integral with the existing brick masonry bearing wall at the east edge of the building, and a row of steel columns that are constructed integral with a multi-level steel framed mezzanine structure at the west edge of the Turbine Room. The existing ground floor level of the Turbine Room was previously lower than its current elevation. A partial basement was historically located at the east edge of the building. The entryways to these basement areas were partially blocked off with unreinforced masonry walls, and the remaining Turbine Room floor area was infilled and covered with trap rock. The western portion of the building is comprised of multiple floor levels of varying heights that house active electrical infrastructure, control room equipment, and miscellaneous utility and storage spaces. Steel columns appear to be constructed integral with the existing brick masonry walls and provide structural support for the roof framing and intermediate floor framing. The intermediate floor levels are constructed with concrete structural slabs supported by either concrete encased steel beams or exposed steel beams that span east to west between additional concrete encased steel framing members constructed integral with the existing brick masonry bearing walls.

The Control House currently contains energized electrical equipment and is utilized for electrical operations at the substation. The building, as currently configured, includes a cable vault, reactor room, switchboard/control room, circuit breaker rooms, a potential transformer room, bus room, and a lightning arrestor room. The vacant Turbine Room (not part of current building operations) and a series of smaller vacant rooms (former partial basement areas that were not filled) occupy the eastern portion of the building. Characterization of crushed stone and/or soil fill material in the Turbine Room was not conducted as part of this investigation.

The Control House layout can be referenced in the Sampling Results Plans, included as Figures 3 through 8.

Records regarding the prior configuration of equipment within the structure, including records pertaining to oil-filled electrical equipment, are limited and incomplete. These limited records indicate that oil-filled electrical equipment has been historically present within portions of the building. According to interviews with TNEC personnel, oil-filled circuit breakers were replaced with vacuum (air) circuit breakers at some time in the past. Paper insulated lead covered cables were noted in the cable vault on the first floor of the building. Cable oil is contained within the lead sheath of the cables. Records regarding the polychlorinated biphenyl (PCB)-content of mineral oil dielectric fluid (MODF) within electrical equipment (i.e., breakers, regulators, transformers) in the building were reviewed by Coneco and discussed in Section 2.4.

Based on information provided by TNEC, a new approximately 1,080 square-foot control house will be constructed directly east of the existing outdoor substation as part of regional upgrades to the electric distribution system. Following completion of the construction activities, the existing Control House will be rendered obsolete. Once the new control house is brought on-line, electrical equipment will be removed from the subject building and the Control House will be demolished. The Control House is currently scheduled to be demolished in the Fall of 2022.

Coordinates:	Latitude 41.86770° UTM 4,637,845 Meters N	Longitude -71.38140° 302,351 Meters E (Zone 19)		
Assessors'				
Information:	According to the City of Pawtucket Assessor's Office, the Property is identified as Lot 645 on Assessor's Plat Map 65, located at 6 Thornton Street within a mixed-use industrial and residential portion of Pawtucket, Rhode Island. The Site and Control House comprise a portion of the Property. The Property is zoned for public utility use.			
Occupancy				
& Use:	The north-central portion of the P used as an active electrical transmisubstation with outdoor and indoor Control House. The Control Hour room and electrical equipment inder reactors, and potential transformed line towers, and associated overhed situated in the southeastern portion portions of the Property consist of undergoing redevelopment. The public and access is restricted to T subcontractors.	north-central portion of the Property (the Site) is currently d as an active electrical transmission and distribution station with outdoor and indoor components, including the trol House. The Control House currently contains a control n and electrical equipment including circuit breakers, tors, and potential transformers. Two electrical transmission towers, and associated overhead transmission lines, are ated in the southeastern portion of the Property. Remaining ions of the Property consist of vacant land, currently ergoing redevelopment. The Site is not accessible by the lic and access is restricted to TNEC and authorized contractors		

Adjacent Land Use:	The Seekonk River abuts the Control House to the east. An		
	active natural gas regulator station is located on the northern		
	abutting parcel. Residential properties are located west and		
	southwest of the Control House. The Francis J. Varieur		
	Elementary School is located southwest of the Control House. A		
	soccer stadium is being constructed north of the Control House.		

2.3 Sensitive Receptors

The RIDEM Environmental Resource Map (http://www.dem.ri.gov/maps) was reviewed online for the Control House and surrounding area on January 7, 2022. According to information presented in the RIDEM Environmental Resource Map, the Control House is not located within the geographic boundaries of a groundwater resource area. The Control House is located within a Natural Heritage Area. The Seekonk River is located approximately 200 feet east of the Control House. Local conservation land is located approximately 475 feet northeast of the Control House. No other environmentally sensitive areas, as defined in Section 1.4.21 of the RIDEM <u>Remediation Regulations</u>, were noted within a 500-foot radius of the Control House. Municipal water and sewer systems service the Control House and adjacent properties, and no private water supply wells were observed in the vicinity of the Control House.

2.4 Potential PCB Sources

Due to the age of the Control House and its use for electrical generation and distribution, oilfilled electrical equipment containing PCBs has historically been present in the building. Historical plans depict oil-filled circuit breakers and oil-filled potential capacitor voltage transformers formerly utilized within the Control House. According to interviews with TNEC, some former oil-filled circuit breakers have been replaced with vacuum (air) circuit breakers. Records regarding the PCB-content of mineral oil dielectric fluid (MODF) within electrical equipment (i.e., breakers, regulators, transformers) in the building, currently or historically, were requested and reviewed by Coneco during this investigation. A total of 59 operating or decommissioned pieces of oil-filled electrical equipment were identified in TNEC's historical records, of which only 13 had information on PCB testing of the oil. TNEC's records identified one piece of oil-filled equipment, a decommissioned oil-filled circuit breaker, manufactured by Westinghouse Electric Corporation in June of 1950, that formerly contained PCB-contaminated MODF. This circuit breaker was reportedly retired and removed from the control house in 2009. TNEC's records indicated that the remaining oil-filled equipment for which PCB information was available were characterized as non-PCB. MODF-filled electrical equipment that is no longer in use at the Site was previously removed by TNEC in accordance with TNEC's Standard Operating Procedures and applicable state and federal regulations.

Oil-filled electrical equipment currently present within the Control House will be assessed and removed prior to demolition in accordance with applicable state and federal regulations. Prior to removal of the electrical equipment, TNEC will collect MODF samples from the oilfilled equipment scheduled for removal to be analyzed for PCBs by EPA Method 8082. The MODF analytical results will be evaluated, and the electrical equipment will be removed from the Site by TNEC and/or a qualified contractor for proper disposal. PCBs were widely used in the manufacture of certain building materials from approximately 1950 to 1979. Potential sources of PCBs in buildings built or renovated between about 1950 and 1979 include caulking, paints, mastics and other adhesives, fireproofing materials, and the capacitors of fluorescent light ballasts manufactured. Based on the age of the building and potential for repairs and/or renovations to have been performed during this time period, building materials associated with the Control House may contain regulated concentrations of PCBs.

3.0 HAZARDOUS BUILDING MATERIAL ASSESSMENT

From 2018 to 2021, at the request of TNEC, Coneco conducted sampling activities to evaluate building materials prior to the proposed retirement and demolition of the Control House. Sampling activities were performed to assess if a historical release(s) of liquid PCBs occurred within the Control House and if certain building materials contain regulated concentrations of PCBs. In addition, sampling activities were conducted to evaluate for the presence of asbestos-containing material (ACM) and paint containing heavy metals (specifically cadmium, chromium, and lead) within the Control House.

In order to characterize select materials associated with the Control House that may contain certain hazardous materials, and establish if a release of oil and/or hazardous material (OHM) occurred within the building, Coneco conducted a visual assessment and subsequent sampling activities for materials characterization, where feasible. Sampling activities were limited in select portions of the Control House due to the presence of energized and in service electrical equipment at the time of sampling activities and the need to maintain appropriate safety protocols regarding minimum approach distances. Therefore, sampling locations were limited to safely accessible areas beyond the minimum approach distances associated with energized electrical equipment.

Initial assessment and investigation activities in the Control House included the collection and laboratory analysis of representative concrete, brick, paint, bulk building material, and wipe samples, as well as an asbestos survey. Samples collected as part of this investigation were submitted to ESS Laboratory (ESS), a Rhode Island and National Environmental Laboratory Accreditation Program (NELAP)-certified analytical laboratory located in Cranston, Rhode Island, for laboratory analysis of PCBs by EPA Method 8082 using a manual Soxhlet extraction per EPA Method 3540. Select paint samples were also submitted for cadmium, chromium, and lead analysis by EPA 6000/7000 Series Methods. Select bulk materials samples were submitted to AmeriSci Virginia Laboratory, an independent NELAPcertified analytical laboratory located in Midlothian, Virginia, for qualitative bulk asbestos analysis using polarized light microscopy. Sample identifications were assigned based on the material type and sampling location (i.e., floor, wall, first floor, second floor, etc.) Sample identifications, locations, and total PCB concentrations can be referenced in the Sampling Results Plans, included as Figures 3 through 8. Laboratory analytical documentation is included as Appendix 3. Analytical results are discussed in Section 5.0.

3.1 Concrete and Brick Sampling

From October 2018 to October 2021, Coneco collected a total of 312 porous material samples (i.e., concrete, brick, and mortar) representative of floors, walls, ceilings, stairs, and/or former equipment foundations/structures located within the Control House. The initial concrete sample locations were selected to characterize areas most likely subject to potential impact based on surficial staining (discoloration), high foot traffic, and the configuration of former and current oil-filled equipment. Initial concrete sampling was limited (i.e., sampling was not conducted along a 3-meter grid in accordance with 40 CFR 761, Subpart N throughout the building) and was conducted to obtain baseline information regarding the presence or absence of regulated concentrations of PCBs.

In areas where concentrations of PCBs were initially identified within concrete and brick wall and/or floor samples equal to or in excess of 1 milligram per kilogram (mg/kg), a 3meter sampling grid was overlaid throughout the area in accordance with 40 CFR 761, Subpart N to delineate the extent of PCB Remediation Waste (which, in some cases, included sampling the adjacent concrete wall, ceiling, and/or brick and mortar walls). In addition to lateral delineation sampling, depth delineation sampling activities were conducted in select areas to further define the limits of PCB concentrations within the Control House.

Concrete and brick samples were collected in accordance with the EPA method described in EPA Region I Standard Operating Procedure (SOP) for Sampling Concrete in the Field. Prior to porous material sample collection, the sample locations were cleared of surficial dust and/or debris. Where paint or other surface coating was present, it was removed prior to sampling. A total of 278 concrete floor/ceiling samples, 22 concrete wall samples, and 12 brick wall samples were submitted to ESS for PCB analysis. Concrete and brick sample analytical results are tabulated for reference in Tables 1 through 3.

3.2 Paint Sampling

The exterior of the Control House primarily consists of unpainted brick. Exterior painted surfaces include doors, doorframes, and a steel fire escape. Exterior painted surfaces were noted to be in fair condition and paint chips were not observed on the ground surface. Interior walls and ceilings consist of painted brick and/or concrete, with the exception of the Turbine Room where limited paint was observed on the brick walls. Concrete floors within the building were not observed to be painted. From October 2018 to October 2021, Coneco collected a total of 256 paint chip (porous material) samples from painted surfaces within the interior and exterior of the control house (i.e., concrete and/or brick and mortar walls, floors, ceilings, interior and/or exterior metal doors, concrete stairs, steel handrails, metal window frames, steel beams, etc.) associated with the Control House. During initial paint assessment activities, a minimum of one representative sample was collected from each homogenous surface of paint (distinct paint type where feasible) to obtain baseline information regarding the presence or absence of regulated concentrations of PCBs. Following receipt of laboratory analytical results for the initial characterization paint samples, additional paint sampling was conducted in order to:

- 1) Delineate PCB concentrations greater than or equal to 50 mg/kg and determine if greater than or equal to 50 mg/kg PCB paint is classified as PCB Remediation Waste or PCB Bulk Product Waste;
- In areas where a release to the unpainted concrete floor was identified, adjacent paint samples were analyzed to evaluate if paint may have been impacted by a historical liquid release (i.e., to delineate potential PCB Remediation Waste in media adjacent to impacted concrete);
- Evaluate if paint types in which PCBs greater than or equal to 1 mg/kg but less than 50 mg/kg were detected during the initial paint assessment are classified as PCB Remediation Waste or Excluded PCB Products;
- 4) Gather additional data and further the lines of evidence to support the waste classification for each paint type identified within the building.

Additional paint samples were collected at varying locations (separate rooms, different walls within the same room, varying heights along the same wall, different lateral locations on the same wall, etc.) to provide data on the distribution of PCB concentrations and lines of evidence of the likely source of the detected PCB concentrations in certain paint samples.

Paint chip samples were collected in accordance with the method described in EPA SOP No. 2011 for Chip, Wipe, and Sweep Sampling. Samples were obtained using disposable dedicated razor blades and then placed in the appropriate sample containers. Paint sample descriptions, location, substrate, and analytical results are tabulated for reference in Table 4.

3.3 Bulk Building Material Sampling

In October 2018 and September 2021, Coneco collected a total of 57 representative bulk building material samples including but not limited to caulk, window glazing, tar paper, conduit sealants, gaskets, and weather stripping from the interior and exterior of the Control House. Initial bulk building material sampling was conducted to obtain baseline information regarding the presence or absence of regulated concentrations of PCBs and asbestos. Supplemental bulk material sampling was conducted in areas where PCBs were identified in bulk materials in excess of 1 mg/kg to evaluate whether the potential source of the PCBs is associated with a liquid release, or the result of historical manufacturing process. Bulk material sampling procedures were conducted in accordance with the EPA method described in EPA SOP No. 2011 for Chip, Wipe, and Sweep Sampling. The samples were obtained using disposable dedicated razor blades. Bulk material sample descriptions and PCB analytical results are tabulated for reference in Table 5.

3.4 Wipe Sampling

Between September 2019 and October 2021, Coneco collected a total of 24 PCB wipe samples from unpainted and painted surfaces throughout the building to gather baseline data on the potential for tracking and/or migration of PCBs throughout the building interior via dust particulates and/or air vapors. Wipe samples were collected from both high traffic and air circulation areas (HVAC system components, stairwells, etc.) as well as low traffic and limited air flow areas to offer a comparison of PCB concentrations in potentially high tracking and low tracking areas. Standard hexane-prepared wipe samples were collected over 100 square-centimeter areas in accordance with the method described in EPA SOP No. 2011

for Chip, Wipe, and Sweep Sampling, and 40 CFR 761.123. Wipe sample analytical results are tabulated for reference in Table 6.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL

4.1 QA/QC Sampling and Analytical Results

A quality assurance/quality control (QA/QC) program including the collection of one blind collocated field duplicate sample for every 20 samples of paint, brick, and concrete was employed as part of Coneco's investigation. Matrix spike/matrix spike duplicate results were requested for the blind collocated field duplicates and the corresponding initial samples. Coneco's review of laboratory data for blind collocated field duplicate samples identified no significant disparity between results of the collocated duplicates and the corresponding characterization samples. QA/QC analytical results and the results of the corresponding collocated environmental assessment samples are tabulated for reference as Table 7.

4.2 Data Evaluation

Following the receipt of analytical results, Coneco conducted a data validation review to ensure that laboratory data is of defensible analytical quality. Procedures employed were consistent with *EPA Region I Data Validation Functional Guidelines for Evaluating Environmental Analyses*.

Coneco's review of laboratory documentation, including analytical results, narratives, and chain-of-custodies provided by ESS for collected concrete, brick, paint, bulk material, and wipe samples identified no departure from the requirements specified by the EPA. Coneco also conducted an evaluation of information provided by ESS concerning sample integrity, chain-of-custody procedures, QA/QC, and necessary report components. Any nonconformance to QC objectives are listed in the laboratory reports. Based on the information presented by ESS, and considering the scope of use for the presented analytical results, it is the opinion of Coneco that the presented laboratory data is in compliance with the applicable EPA and RIDEM standards and laboratory QC requirements. As such, laboratory data produced for samples collected from the Site are considered valid and do not require adjustment.

Please note that although full data packages were produced for Site Characterization laboratory analytical results, only the cover page, table of contents, analytical narrative, certification, result sheets, sample receipt checklist, and chain-of-custody forms for each data set are included in Appendix 3. Full data package information will be provided at the request of the EPA or RIDEM.

4.3 Data Gaps

Based on the sampling activities conducted to date, the following data gaps have been identified:

• Electrical equipment associated with the Control House was energized and in service at the time of sampling activities. Therefore, sampling locations were limited to

safely accessible areas beyond the minimum approach distances associated with energized electrical equipment. Following the de-energization and/or removal of the electrical equipment, additional assessment and sampling of these respective areas will be required. As detailed below in Section 6.0, the Control House is scheduled to become de-energized in the Spring of 2022, and additional sampling is expected to occur in June 2022.

- Due to the size and layout of the building, as well as the nature of the project as a • demolition rather than a renovation, initial Site Characterization sampling was limited and did not strictly comply with the characterization requirements of 40 CFR 761 Subpart N (i.e., sampling was not conducted along a 3-meter grid throughout the Control House) in an attempt to make broad, conservative assumptions for waste handling during demolition. The sampling program to date was designed to assess for the presence of regulated concentrations of PCBs in areas/materials that are most likely to contain PCBs and delineate identified impacts based on potential migration pathways. In areas where concentrations of PCBs were initially identified within concrete and brick walls and/or floors samples equal to or in excess of 1 mg/kg, a 3meter sampling grid was overlaid throughout the area in accordance with 40 CFR 761, Subpart N to delineate the extent of PCB Remediation Waste. Furthermore, there is no record of oil-filled electrical equipment or other liquid sources of PCBs in some areas, for example: Room A. Sampling in these areas was conducted as a conservative measure to screen for the presence of PCBs attributable to tracking/migration, or the historical use of PCBs in manufacturing processes.
- PCB concentrations have not been fully vertically depth delineated in accordance with the requirements of 40 CFR 761 Subpart N. Depth delineation was performed at select locations to gain representative data of vertical extent of PCB concentrations to aid in the development of removal plans. In areas where further depth delineation is not feasible due to the limitations of the sampling method and the observed depth of PCB concentrations; PCB remediation, demolition, and removal plans will be developed to address the data gap.
- Sampling in the Turbine Room was limited due to safety concerns associated with the risk of loose brick debris becoming dislodged from the walls. However, Coneco was able to safely collect at least one paint sample per distinct paint type used in the Turbine Room, as well as concrete samples from the concrete foundations formerly supporting turbines located within the Turbine Room.
- The Turbine Room has been filled to grade and covered with trap rock (crushed stone), making the lower walls and sub-grade floor of the turbine room inaccessible for inspection and sampling. Coneco cannot make any statement concerning OHM releases, and/or PCB concentrations in building materials that may be concealed by the fill material. Portions of the building foundation remaining on-Site following demolition will be covered by an engineered cap, as detailed in Section 7.0.

Additional characterization sampling is warranted to address the above data gaps and further characterize building materials to support the findings and conclusions of the Final Site

Characterization and Self-Implementing Cleanup Plan (estimated submittal July 2022). If PCB delineation/characterization activities cannot be completed in select areas, materials shall be conservatively classified as PCB Remediation Waste for handling and disposal purposes. Following additional characterization sampling activities, remaining data gaps will be addressed in the demolition work plans, which will be included in the Final Site Characterization and Self-Implementing Cleanup Plan for EPA review and approval.

5.0 EXTENT OF IMPACT

As a result of sampling activities, concentrations of PCBs equal to or in excess of 1 mg/kg were identified in concrete, brick, paint, and bulk building materials associated with the Control House. PCB concentrations identified in these materials may be attributable to one or more of the following:

- Spills, releases, or other unauthorized disposals (i.e., direct impact from liquid sources)
- Impact via direct contact transfer by site workers and/or contaminated equipment (i.e., a historical tracking scenario)
- Building materials (i.e., paint, caulk, etc.) historically manufactured with PCBs

Potential sources of PCBs currently and/or historically located within the building from which a release may have occurred include oil-filled electrical equipment. As the Control House was constructed in 1907, with operations and maintenance ongoing since then, there is the potential for building materials manufactured with PCBs to be present (i.e., products manufactured with PCBs). Materials containing concentrations of PCBs equal to or in excess of 1 mg/kg may be classified as one of the following in accordance with at 40 CFR 761.3:

- **PCB Remediation Waste**: Materials containing concentrations of PCBs equal to or in excess of 1 mg/kg as the result of spills, releases, unauthorized disposals, or impact via direct contact transfer by site workers and/or contaminated equipment (i.e., a historical tracking scenario) are classified as PCB Remediation Waste.
- Excluded PCB Products: Materials manufactured with PCBs at concentrations of less than 50 mg/kg before October 1, 1984 and resulting PCB concentration is not a result of dilution or a release of PCBs from a source equal to or in excess of 50 mg/kg.
- **Bulk PCB Product Waste**: Waste derived from manufactured products containing PCBs in a non-liquid state, at any concentration where the concentration at the time of designation for disposal is equal to or greater than 50 mg/kg.

In accordance with 40 CFR 761.3, if materials are to be managed as Excluded or Bulk Product Waste, it must be demonstrated that the PCBs are not present due to a release.

5.1 Concrete and Brick

Concrete Floors/Ceilings

Laboratory analytical results indicated that 61 of the 278 discrete concrete floor/ceiling samples collected as part of the initial characterization activities contain concentrations of PCBs equal to or in excess of 1 mg/kg, with the highest detected concentration of 27,700 mg/kg. As the detected PCB concentrations are likely attributable to a release(s) from oil-filled electrical equipment and/or tracking by site workers, portions of the concrete floors containing PCBs at concentrations equal to or in excess of 1 mg/kg are considered to represent PCB Remediation Waste as defined at 40 CFR 761.3. The locations and approximate inferred areas of PCB Remediation Waste identified to date in the concrete floors are listed below and depicted in the PCB Remediation Waste Plans provided as Figures 9 to 12.

First Floor

- Entryway (60 square feet)
- Locker Room (35 square feet)
- Western/central portion of Room 2 (20 square feet)
- Exterior stairwell at southwest corner of the Control House (70 square feet)

Second Floor

• Southeast ceiling of Office Room 1 (35 square feet)

Third Floor

- East Hallway (1,600 square feet)
- Room C northern doorway (35 square feet)
- Room D northern doorway (30 square feet)

Fourth Floor

- Northern portion of Mezzanine (40 square feet)
- Room E northern doorway (60 square feet)

The highest PCB concentrations were observed at the north end of the third-floor East Hallway. PCB concentrations in this area extend beyond 4 inches in depth (below the floor surface), the maximum sampling depth. PCBs concentrations detected in a sample of the second-floor ceiling concrete directly below this area may indicate that PCB concentrations have penetrated the entirety of the concrete slab in this vicinity. No electrical equipment is currently present in this area and no records indicating the presence of historical equipment are available; therefore, the PCB source cannot be definitively determined. Based on interviews with TNEC personnel, the area was reportedly used as a work area for equipment repairs, and therefore ancillary storage of oil-containing equipment and spillage from said equipment is the suspected PCB source.

Concrete Walls

Concrete wall samples were collected in select areas where PCB Remediation Waste was identified in unpainted concrete floors and/or where paint on the walls contains PCB concentrations equal to or in excess of 1 mg/kg. Based on sampling conducted to date, no concentrations of PCBs were identified equal to or in excess of 1 mg/kg in concrete samples

collected from the walls, indicating that migration of PCBs associated with historical releases or tracking (i.e., from floor areas with identified PCB Remediation Waste), and/or leaching of PCBs from a manufactured product (e.g., paint, caulk, etc.) were not identified in the underlying wall substrate (concrete).

Brick Walls

Two brick samples, BR-03-01 and BR-03-09, collected from the third-floor East Hallway wall were found to contain concentrations of PCBs equal to or in excess of 1 mg/kg. The brick associated with the samples is covered by paint containing PCB concentrations greater than 50 mg/kg (BR-03-01) or approaching 50 mg/kg (BR-03-09) and is located within the third-floor East Hallway area of concern where PCB Remediation Waste has also been identified in paint and concrete. The detected PCB concentrations in the bricks may be attributable to a liquid release or tracking of PCBs, or the overlying paint may have been manufactured with PCBs (PCB Bulk Product) which migrated/leached into the brick substrate. However, as indications of a historical release of PCBs have been identified in the East Hallway, painted brick in this area containing PCBs at concentrations equal to or in excess of 1 mg/kg will be managed and disposed as PCB Remediation Waste as detailed below in Section 7.3.

5.2 Paint

The majority of the paint samples collected throughout the building were found to contain PCB concentrations equal to or in excess of 1 mg/kg. Of the 253 paint samples collected, 228 samples contain PCB concentrations equal to or in excess of 1 mg/kg but less than 50 mg/kg. Ten paint samples contain PCB concentrations equal to or in excess of 50 mg/kg. The classification of paints from within the Control House containing concentrations of PCBs equal to or in excess of 1 mg/kg is detailed below.

PCB Remediation Waste

Paint samples containing PCB concentrations equal to or in excess of 1 mg/kg as well as in excess of 50 mg/kg include samples collected from painted steel doors and handrails. While paint located on steel doors and handrails could be considered to represent PCB Bulk Product Waste (or Excluded PCB Product if PCB concentrations are less than 50 mg/kg), it is possible that the PCB concentrations are the result of tracking associated with a direct contact transfer of PCBs, or via a liquid release of PCBs. Paint samples collected from steel doors and handrails represent high contact surfaces for site workers in a building where PCB releases have been identified. The presence of PCBs in select portions of the concrete floor associated with doorways and entryways within the Control House indicate there was likely tracking associated with historical releases in the building. As such, paint containing concentrations of PCBs equal to or in excess of 1 mg/kg (and in excess of 50 mg/kg) associated with doors (including door frames) and handrails is therefore considered to represent PCB Remediation Waste as defined at 40 CFR 761.3.

PCB concentrations in paint samples collected from the third-floor East Hallway are on average higher than other paint samples collected from the walls of other rooms in the Control House. As detailed in Section 5.1, the highest PCB concentrations in concrete were found at the northern end of the East Hallway on the third floor, where a historical release of

PCBs has occurred. Paint chip samples collected from the adjacent walls contain higher PCB concentrations than similar paint types on walls in other areas of the building. Additionally, a paint sample collected from the second-floor Office 1 ceiling, located directly below the third-floor East Hallway, contained higher PCB concentrations than similar paint types found in the Control House, which may indicate that PCB concentrations have penetrated the concrete slab in this area. It is likely that the elevated concentrations of PCBs found in paint in the hallway are attributable to a release of PCBs. Therefore, paint in the third-floor East Hallway and portions of the second-floor Office 1 ceiling containing PCB concentrations equal to or in excess of 1 mg/kg is characterized as PCB Remediation Waste. Paint samples collected from other rooms of the building indicate that the elevated PCB concentrations identified in the East Hallway are not widespread throughout the building. Additional sampling is necessary and will be performed to delineate the extent of PCBs in the second-floor Office 1 ceiling, as detailed in Section 6.0.

Excluded PCB Product

With the exception of areas detailed above, results of paint characterization sampling indicate that paint samples collected from the building walls do not contain PCB concentrations in excess of 50 mg/kg. PCB concentrations in paint are relatively consistent between homogenous paint types throughout the building. Coneco is of the opinion that concentrations of PCBs identified in the paint samples collected from the building exterior and interior walls, with the exception of a select area of the third floor (i.e., the east hallway area, depicted in Figure 6), are the result of the manufacturing processes, and thus represent Excluded PCB Products as defined in 40 CFR 761.3, and not the result of a historical liquid release of PCBs, which would represent PCB Remediation Waste. Coneco has utilized the following lines of evidence to support this conclusion:

- No staining, discoloration, or visual evidence of a liquid release from oil-filled electrical equipment was observed on the painted surfaces.
- PCBs were not present at concentrations equal to or greater than 50 mg/kg in the paint samples collected from the first, second, fourth, and fifth-floor walls and floors. The paint samples contain PCB concentrations at comparable levels among samples of like paint types and paint locations (as listed in Table 4). In the case of a liquid release, one would expect to find greater concentrations of PCBs in select areas (i.e. a hotspot or source area similar to that in the third-floor East Hallway), indicating proximity to a potential release source. The relative consistency of the detected PCB concentrations amongst paint samples throughout the Control House (with the exception of a select area on the third-floor East Hallway) of the same paint type does not suggest such a release scenario.
- In the event of a liquid release, PCB concentrations would be expected to vary across the impacted surface based on the distance from the point of release. PCBs would also likely impact only one side of the physical obstacle (i.e., a wall). Coneco's assessment of painted materials included the collection of paint samples from a variety of locations within the Control House (different directional walls within the same room, different rooms containing the same paint types, multiple locations along

open walls and corridors with no obstructions) to evaluate the variation, if any, of PCB concentrations across the surfaces. Based on the analytical data for the paint samples, there is no apparent directionality to the detected concentrations of PCBs within the control house first, second, fourth, and fifth floors. For example:

- Samples PS-143, PS-148, and PS-154, representing dark green paint collected from the first-floor lower wall of the east hallway of the cable vault, exhibited similar PCB concentrations (ranging from 3.1 mg/kg to 4.1 mg/kg).
- Samples PS-126 through PS-129, representing dark green paint collected from three different walls of the first-floor Room 9 (Locker and Toilet Room), exhibited similar PCB concentrations (4.2 mg/kg to 5.5 mg/kg).
- Samples PS-113, PS-115, and PS-117, representing white paint collected from the first-floor walls of Room 2, Room 7, and Room 9, respectively, exhibited similar PCB concentrations (ranging from 4.2 mg/kg to 5.8 mg/kg).
- In the event of a liquid release, PCB concentrations would be expected to vary widely at different heights along an impacted surface, with higher concentrations expected at the height closest to the point source of the release. Coneco's assessment of painted materials included the collection of paint samples from varying heights (heights ranging from 1 to 9 feet above the specific floor) along the same vertical axis at predetermined select interior walls within the Control House. Based on the analytical data for the paint samples, PCB concentrations are similar in paint chip samples collected at varying heights at certain sampling locations, indicating that the PCB concentrations are not likely the result of a liquid release and/or tracking/contact. For example:
 - Samples PS-203 through PS-206, collected from the fourth-floor Room E wall from 1 foot to 9 feet above the floor surface exhibited similar PCB concentrations for each respective paint type. PCB concentrations ranged from 2.0 mg/kg to 2.1 mg/kg for the lower portion of the wall (dark green paint) and 1.1 mg/kg to 1.2 mg/kg for the upper portion of the wall (white paint underlain by yellow paint). It would be expected that the paint samples collected from the same wall (at various heights from the floor) would contain a variable range of PCB concentrations if the paint had been impacted by a historical release of liquid PCBs.
 - Samples PS-165 and PS-166, representing light green paint underlain by brown paint, collected from the second-floor Office Room 2 south wall from 2 feet to 3 feet exhibited similar PCB concentrations. PCB concentrations were 5.0 mg/kg for both samples, collected from the lower portion of the wall (PS-166) and the mid-level portion of the wall (PS-165).
- A total of 24 PCB wipe samples were collected from various painted and unpainted surfaces throughout the Control House. Wipe samples were collected to evaluate if painted surfaces may have been impacted by a liquid release of PCBs and if PCBs had migrated throughout the interior of the Control House via dust particulates or vapors. Three of the 24 wipe samples were collected within the interior of the air

handlers associated with the heating and ventilation system for the Control House. Results of the wipe sample analysis indicated that 22 of the 24 samples did not contain concentrations of PCBs above the laboratory detection limit (0.5 or 1.0 micrograms per 100 square centimeters). The remaining two samples contained PCB concentrations of 1.4 and 5.8 micrograms per 100 square centimeters, respectively. Based on these results, PCB contamination of indoor air or other surfaces resulting from airborne dust or vapors does not appear to have occurred in association with a historical presence of PCBs or suspected release(s) within the Control House. In addition, no indication of a liquid release to the painted surfaces sampled was identified.

• Of the 253 paint samples collected, 228 samples contain PCB concentrations equal to or in excess of 1 mg/kg but less than 50 mg/kg, and 12 samples contained detected PCB concentration less than 1 mg/kg. Additionally, 3 paint samples did not have PCB detections in excess of the laboratory detection limits of 1.0, 1.1, and 22.7 mg/kg, respectively. Therefore, approximately 96% of the paint samples collected did not contain PCB concentrations in excess of 50 mg/kg.

Based on the above multiple lines of evidence, it is Coneco's opinion that paint types containing PCBs at concentrations equal to or greater than 1 mg/kg and less than 50 mg/kg (except as previously categorized as PCB Remediation Waste in this section) were not impacted by a spill, release, tracking/contact, or other unauthorized disposal release of PCBs. Rather, these materials comprise products that were contaminated with Aroclor or other PCB materials from historic PCB uses in manufacturing of paint products. Therefore, with the exception of the third-floor East Hallway and the high contact surfaces detailed above, painted surfaces associated with the interior and exterior of the building are considered Excluded PCB Products, as defined at 40 CFR 761.3.

In addition to concentrations of PCBs, paint samples from each of the five floors contain concentrations of cadmium, chromium, and lead. The presence of lead, cadmium, and chromium in certain PCB Remediation Wastes and Excluded PCB Product requires that this waste also be managed in accordance with applicable state and federal regulations pertaining to the presence of heavy metals.

5.3 Bulk Materials

Bulk material samples collected from the Control House for PCB analysis consisted of caulk, rubber floor mats, window glazing, tar paper, conduit sealants, gaskets, weather stripping, table coverings, and cove base moldings. Laboratory analytical results indicate that the collected bulk material samples contain concentrations of PCBs ranging from below the laboratory detection limit (less than 0.1 mg/kg) to 42.3 mg/kg. No bulk material samples contained PCB concentrations greater than 50 mg/kg.

The bulk material samples representing rubber floor matting on the second floor of the Control House within Office 1 (2003A/B/C), Office 2 (2012A/B), Office 3 (2014), and the Room B: Main Switchboard Room (2016A/B/C) contained PCB concentrations ranging from 1.5 to 42.3 mg/kg. Additionally, the bulk material samples representing table coverings on

the second floor of the Control House within Office 1 (2001) and in Room B: Main Switchyard Room (2015) contained PCB concentrations of 6.4 and 19.9 mg/kg, respectively. Based on the variability of concentrations among these samples and the locations of the floor matting in areas of high foot traffic and the table coverings in areas of high contact and tracking potential, these materials are considered PCB Remediation Waste due to the likelihood that these concentrations represent tracking of a release of PCBs.

Based on the locations of the remaining bulk materials found to contain PCBs at concentrations equal to or greater than 1 mg/kg and less than 50 mg/kg, it is Coneco's opinion that the identified PCB concentrations are attributable to the manufacturing process, due to the low potential for direct impact or tracking to these materials associated with a liquid release of PCBs. Additionally, the locations, directionality, and heights of the identified bulk materials were assessed via the collection of multiple homogenous samples from different locations, where feasible. Coneco did not identify any significant discrepancy between PCB concentrations in the duplicate samples. Based on the above lines of evidence, Coneco has classified these remaining bulk materials as Excluded PCB Products, as defined at 40 CFR 761.3.

An ACM survey was performed for the Control House during bulk material sampling activities. Laboratory analytical results for the bulk material samples submitted for asbestos analysis indicate that ACM is present in select portions of the Control House. As such, ACM will be removed and properly disposed of by a trained and licensed asbestos abatement contractor in accordance with applicable state and federal regulations and requirements. Identified ACM that is comingled with PCB Remediation Waste will be managed and disposed of as PCB Remediation Waste in accordance with 40 CFR 761.61(a)(5)(i)(B)(2)(iii). PCB Remediation Waste disposal is detailed in Section 7.3.

6.0 PROPOSED ADDITIONAL SAMPLING

Select portions of the Control House are currently active and energized, limiting sampling locations to safely accessible areas beyond the minimum approach distances associated with energized electrical equipment. The Control House is expected to be taken offline in the Spring of 2022 and electrical equipment will be de-energized at this time. Coneco will then conduct additional sampling in previously inaccessible areas. The sampling will include oil-contained within equipment, as well as bulk materials or painted surfaces in the vicinity of the current and/or former location of oil-filled electrical equipment. These areas include:

- Room D Breaker Cabinets
- Room E Potential Transformer Cabinets
- Room F Breaker Cabinets
- Lighting Arrestor Room Breaker Cabinets

Based on concrete sampling conducted proximal to these areas to date, no indication of a liquid release to the concrete floors in the general vicinity of the electrical equipment has been identified. One concrete sample will be collected from the floor under each breaker or potential transformer following removal of the equipment. Note, each vacuum and/or oil-

filled circuit breaker consists of three compartments. A representative concrete sample will be collected from one of the three compartments. In the event staining is present, the sample will be collected from the area of surficial staining. If no indication of a release is observed, the sample will be collected from the area most likely to have been impacted during a potential release, i.e., underneath drain valves and/or fill ports. If PCB Remediation Waste is identified in concrete, additional sampling will be conducted in accordance with Subpart N to delineate PCB concentrations.

As PCB concentrations were identified in the concrete floor of the third-floor East Hallway up to 4 inches below the floor surface, paint and concrete samples were collected from the ceiling of Office 1 on the second floor immediately beneath this area to determine if PCBs had migrated through the concrete floor. The samples were collected directly beneath the highest PCB concentrations in the concrete floor of the third-floor East Hallway. PCBs were identified in excess of 1 mg/kg in the three paint samples and one of the concrete samples (16.4 mg/kg in concrete sample ICS-02-18). Based on these results, it appears that PCBs have migrated through the concrete of the third-floor East Hallway floor. Coneco proposes to collect additional paint and concrete samples from the Office 1 ceiling to delineate PCB concentrations. Proposed sample locations are depicted in Figures 4 through 8. Results and findings of additional sampling activities will be included in the Final Site Characterization and Self Implementing Cleanup Plan estimated to be submitted to EPA in July 2022.

7.0 CONCEPTUAL SELF-IMPLEMENTING CLEANUP PLAN

The following sections outline the proposed Self-Implementing Cleanup of PCB Remediation Waste identified within the Control House at the Site. It is provided as a conceptual plan until such time as additional sampling as detailed in Section 6.0 is completed, a remediation/demolition contractor is selected, and a contractor work plan is prepared by said contractor.

7.1 Building Demolition

The Control House is scheduled for demolition following the completion of upgrades to the existing substation, including the construction of a new control house. TNEC is expected to award the project to a contractor in early 2022. Detailed plans for the building demolition including the means and methods for removal and handling PCB waste will be developed with the selected contractor and provided in the Final Site Characterization and Self Implementing Cleanup Plan. The Control House is expected to be demolished in its entirety with the exception of the concrete building foundation. The concrete building foundation will be removed to approximately 1 to 3 feet below existing exterior grades to facilitate the installation of the engineered cap and perform surface regrading activities. The remaining portions of the foundation expected to remain in place following demolition activities. Following the completion of demolition activities, the footprint of the building will be backfilled to grade with appropriate, imported replacement material containing less than 1 mg/kg PCBs.

As noted in Section 4.3, the Turbine Room has been infilled to approximately exterior surface grade, rendering the below grade foundation inaccessible for assessment. Based on analytical results for samples collected from the concrete turbine foundations and the below grade rooms adjacent to the Turbine Room, it is unlikely that the concrete building foundation associated with the Turbine Room has been impacted by a release of PCBs. As part of the RIDEM-approved RAWP for the Property, the building footprint (including the remaining below grade concrete building foundation) and surrounding area will be covered by an engineered cap following demolition of the remainder of the structure. The building foundation associated with the former Control Building will remain inside of a gated and locked fenced area associated with the Substation, with access limited to authorized personnel (i.e., TNEC employees and contractors) who will be present at the Site on an infrequent basis due to the nature of operations of the Substation. An Environmental Land Use Restriction, as well as a TSCA deed restriction, will be recorded for the entire Property (including the Site and area of the Control House) to prevent human exposure to impacted soil and groundwater and limit future use of the Property. Therefore, disturbance of the remaining building foundation, including subsurface materials beneath the former Turbine Room that are unable to be assessed, are not proposed. If construction in this area is proposed in the future, TNEC will conduct appropriate characterization of subsurface materials prior to performing activities that have the potential to disturb materials that could not be characterized as part of this submittal.

7.2 Cleanup Standards and PCB-Impacted Material Removal

The cleanup level specified at 40 CFR 761.61(a)(4)(i) for unrestricted use is less than or equal to 1 mg/kg. This cleanup level also meets the Method 1 objectives for PCBs established in Rule 1.9.2 of the <u>Remediation Regulations</u>. Accordingly, porous materials and painted surfaces associated with the Control House containing total PCB concentrations in excess of 1 mg/kg are proposed to be removed for disposal.

Specific demolition and PCB Remediation Waste removal practices will be developed with the selected environmental services contractor. This may include removal of entire floor and walls containing PCB Remediation Waste. PCB removal areas will be determined based on results of the proposed additional sampling and contractors proposed methods of demolition. The need for post-removal verification sampling will be evaluated for each proposed removal area. Items that have been classified as PCB Remediation Waste, including painted doors/railings and floor mats will be removed in their entirety and disposed of as PCB Remediation Waste. Building materials not otherwise classified as PCB Remediation Waste that are coated in paint types classified as Excluded PCB Products will be disposed of at a RCRA Subtitle D landfill permitted to accept such waste. Coneco plans to submit a Final Site Characterization and Self-Implementing Cleanup Plan to EPA detailing specific removal areas, waste disposal facilities, and demolition/remediation means/methods (contractor work plan) following the completion of additional assessment activities proposed in Section 6.0, and selection of the remediation/demolition contractor.

7.3 PCB Waste Disposal

PCB Remediation Waste comprised of concrete, brick, select painted materials, and other bulk materials generated as a result of demolition activities will be disposed of in a hazardous

waste landfill permitted by the EPA under section 3004 of RCRA or an approved PCB disposal facility meeting the requirements of 40 CFR 761.61(a)(5). TNEC plans to manage and dispose of all PCB Remediation Waste as a greater than or equal to 50 ppm PCB waste in accordance with 40 CFR 761.61(a)(5)(i)(B)(2)(iii). Building materials classified as Excluded PCB Products, characterized as building materials containing concentrations of PCBs greater than 1 ppm and less than 50 ppm as a result of manufacturing processes, will be disposed of at a RCRA Subtitle D landfill permitted to accept such waste. Additional information on material classification, waste streams, and disposal facilities will be provided in the Final Site Characterization and Self-Implementing Cleanup Plan estimated to be submitted to EPA in July 2022.

7.4 Public Notification and Required Permits

This Preliminary Site Characterization and Self-Implementing Cleanup Plan has been provided to the EPA Region 1, RIDEM, and the Rhode Island Department of Health. As this report is intended to provide preliminary findings and detail proposed additional future sampling activities for informational purposes, no approval is required at this time. Remedial activities will be performed following EPA and RIDEM approval of the Final Site Characterization and Self-Implementing Cleanup Plan.

7.5 Schedule

Coneco anticipates the completion of the proposed Self-Implementing Cleanup in accordance with the following schedule:

Self-Implementing Cleanup Schedule			
Activity	Anticipated Date		
De-energization and removal of electrical equipment	December 2022-February 2023		
Additional Sampling Following De-Energization of Control House	December 2022-January 2023		
Submittal of Final Site Characterization and Self- Implementing Cleanup Plan to EPA Region 1	January 2023		
EPA Region 1 Approval of Proposed Self-Implementing Cleanup	March 2023		
Removal Activities	March-May 2023		
Closure Report Preparation	June 2023		
Submittal of Closure Report to EPA Region 1	July 2023 (60 days from completion of removal activities)		

7.6 Contingencies

Additional sampling activities are planned prior to demolition of the Control House. Coneco will provide EPA and RIDEM with a Final Site Characterization and Self-Implementing

Cleanup Plan detailing the new findings and specifics of the cleanup plan. TNEC will obtain EPA and RIDEM approval for cleanup activities associated prior to the demolition of the Control House.

8.0 LIMITATIONS

The information presented by Coneco in this report is based solely on the references cited. Observations were made under the conditions stated. Information provided by subcontractors, federal, state, and local agencies contacted was relied upon as accurate and complete.

With specific regard to Site Characterization sampling, data obtained from specific sampling points may not be wholly representative of the nature of environmental conditions at locations other than the actual test location. Variable conditions may only become evident upon further exploration or future sampling activities. Should additional information become available concerning the Site in the future, that information should be made available to Coneco for review so that the conclusions presented in this report may be modified as necessary.

FIGURES



THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE.



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AND BASED UPON A PLAN TITLED "SWITCH HOUSE GENERAL ARRANGEMENT PLAN" FROM TNEC AND CONECO FIELD OBSERVATIONS





NOTES: SAMPLES COLLECTED FROM VERTICAL SURFACES ARE DEPICTED BY A HALF SYMBOL. ORIENTATION OF SYMBOL DENOTES THE SIDE OF THE STRUCTURE FROM WHICH THE SAMPLE WAS COLLECTED GREEN SYMBOL INDICATES PCB CONCENTRATIONS <1 MG/KG RED SYMBOL INDICATES PCB CONCENTRATION ≥1 MG/KG

DOORWAY

<u>LEGEND</u>



CONCRETE SAMPLE LOCATION, IDENTIFICATION, AND PCB CONCENTRATION IN MG/KG PROPOSED CONCRETE SAMPLE LOCATION PAINT SAMPLE LOCATION, IDENTIFICATION, AND PCB CONCENTRATION IN MG/KG PROPOSED PAINT SAMPLE LOCATION WIPE SAMPLE LOCATION, IDENTIFICATION, AND PCB CONCENTRATION IN ug/100cm²







NOTES:

GREEN SYMBOL INDICATES PCB CONCENTRATIONS <1 MG/KG RED SYMBOL INDICATES PCB CONCENTRATION ≥1 MG/KG

THE COLOR OF THE WALLS REPRESENTS GREEN VS. WHITE PAINT.



NOTE: THE LOCATION AND DIMENSIONS OF THE SITE AND VICINITY FEATURES ARE APPROXIMATE AND BASED UPON A PLAN TITLED "FLOOR PLANS" FROM STONE & WEBSTER INC. AND CONECO FIELD OBSERVATIONS

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<u>LEGEND</u>

INFERRED AREA OF PCB REMEDIATION WASTE

DOORWAY

NOTES:

SAMPLES COLLECTED FROM VERTICAL SURFACES ARE DEPICTED BY A HALF SYMBOL. ORIENTATION OF SYMBOL DENOTES THE SIDE OF THE STRUCTURE FROM WHICH THE SAMPLE WAS COLLECTED GREEN SYMBOL INDICATES PCB CONCENTRATIONS <1 MG/KG RED SYMBOL INDICATES PCB CONCENTRATION \geq 1 MG/KG



NOTE: THE LOCATION AND DIMENSIONS OF THE SITE AND VICINITY FEATURES ARE APPROXIMATE AND BASED UPON A PLAN TITLED "SWITCH HOUSE GENERAL ARRANGEMENT PLAN" FROM TNEC AND CONECO FIELD OBSERVATIONS


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NOTE: THE LOCATION AND DIMENSIONS OF THE SITE AND VICINITY FEATURES ARE APPROXIMATE AND BASED UPON CONECO FIELD OBSERVATIONS



TABLES

	Table 1	- Concrete	Floor and (Ceiling A	nalytical	Results		
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
ICS-01 (0-0.5)	10/30/2018	11/5/2018	48	<0.2	< 0.2	< 0.2	< 0.2	< 0.2
ICS-02 (0-0.5)	10/30/2018	11/5/2018	63	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
ICS-03 (0-0.5)	10/31/2018	11/5/2018	66	< 0.2	0.8	< 0.2	< 0.2	0.8
ICS-01-01 (0-0.5)	10/1/2018	10/8/2018	54	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-02 (0-0.5)	10/1/2018	10/8/2018	60	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-03 (0-0.5)	10/1/2018	10/8/2018	53	< 0.1	0.1	< 0.1	0.2	0.3
ICS-01-04 (0-0.5)	10/1/2018	10/8/2018	44	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-05 (0-0.5)	10/1/2018	10/8/2018	55	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-06 (0-0.5)	10/1/2018	10/8/2018	47	0.4	< 0.1	< 0.1	< 0.1	0.4
ICS-01-07 (0-0.5)	10/1/2018	10/8/2018	47	0.2	0.1	< 0.1	< 0.1	0.3
ICS-01-08 (0-0.5)	10/1/2018	10/8/2018	47	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-09 (0-0.5)	10/1/2018	10/9/2018	48	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-10 (0-0.5)	10/1/2018	10/9/2018	45	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-11 (0-0.5)	10/1/2018	10/9/2018	55	< 0.1	0.2	< 0.1	< 0.1	0.2
ICS-01-12 (0-0.5)	10/1/2018	10/9/2018	73	0.9	0.3	< 0.1	< 0.1	1.2
ICS-01-13 (0-0.5)	10/1/2018	10/9/2018	64	< 0.1	0.4	< 0.1	< 0.1	0.4
ICS-01-14 (0-0.5)	10/1/2018	10/9/2018	98	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-15 (0-0.5)	10/1/2018	10/9/2018	92	< 0.1	0.2	< 0.1	< 0.1	0.2
ICS-01-16 (0-0.5)	10/1/2018	10/9/2018	46	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-17 (0-0.5)	10/1/2018	10/9/2018	75	0.3	0.2	< 0.1	< 0.1	0.5
ICS-01-18 (0-0.5)	10/1/2018	10/9/2018	63	< 0.1	0.2	< 0.1	< 0.1	0.2
ICS-01-19 (0-0.5)	10/1/2018	10/9/2018	83	< 0.1	0.1	< 0.1	< 0.1	0.3
ICS-01-20 (0-0.5)	10/1/2018	10/9/2018	62	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
ICS-01-21 (0-0.5)	10/1/2018	10/9/2018	56	0.3	0.1	< 0.1	< 0.01	0.4
ICS-01-22 (0-0.5)	10/1/2018	10/9/2018	52	0.1	< 0.1	< 0.1	< 0.1	0.1
ICS-01-23 (0-0.5)	10/1/2018	10/9/2018	50	0.2	< 0.9	< 0.09	< 0.9	0.2
ICS-01-24 (0-0.5)	10/1/2018	10/9/2018	81	0.3	< 0.1	< 0.1	< 0.1	0.3
ICS-01-25 (0-0.5)	10/1/2018	10/9/2018	60	0.6	< 0.1	< 0.1	< 0.1	0.6
ICS-01-26 (0-0.5)	10/1/2018	10/9/2018	53	0.2	0.2	< 0.1	< 0.1	0.4
ICS-01-27 (0-0.5)	10/1/2018	10/9/2018	69	0.2	0.1	< 0.1	< 0.1	0.3
EPA Standard								1
RDFC								10

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

5. Bold indicates an exceedance of the applicable disposal action level.

6. **Red** indicates an exceedance of the applicable Method 1 RDEC Objective.

7. SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-01-28 (0-0.5)	10/1/2018	10/9/2018	50	0.1	0.1	< 0.1	< 0.1	0.2			
ICS-01-29 (0-0.5)	10/1/2018	10/9/2018	60	< 0.09	0.3	< 0.09	< 0.09	0.3			
ICS-01-30 (0-0.5)	10/1/2018	10/9/2018	62	0.2	0.2	< 0.09	< 0.09	0.4			
ICS-01-31 (0-0.5)	10/1/2018	10/9/2018	43	0.2	0.2	< 0.1	< 0.1	0.4			
ICS-01-32 (0-0.5)	10/1/2018	10/9/2018	79	0.6	0.3	< 0.09	< 0.09	0.9			
ICS-01-33 (0-0.5)	10/1/2018	10/9/2018	68	8.9	< 0.01	< 0.1	< 0.1	8.9			
ICS-01-33 (0.5-1)	4/28/2021	5/5/2021	101	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-33 (1-2)	4/28/2021	5/5/2021	98	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-33 (2-3)	4/28/2021	5/5/2021	95	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-34 (0-0.5)	10/1/2018	10/9/2018	87	0.2	< 0.1	< 0.1	< 0.1	0.2			
ICS-01-35 (0-0.5)	10/1/2018	10/9/2018	71	< 0.09	< 0.9	< 0.09	<0.9	< 0.09			
ICS-01-36 (0-0.5)	10/1/2018	10/9/2018	69	< 0.09	< 0.9	< 0.09	< 0.9	< 0.09			
ICS-01-37 (0-0.5)	10/1/2018	10/9/2018	51	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-38 (0-0.5)	10/1/2018	10/9/2018	81	< 0.09	< 0.9	< 0.09	< 0.9	< 0.09			
ICS-01-39 (0-0.5)	10/1/2018	10/9/2018	85	< 0.09	< 0.9	< 0.09	< 0.9	< 0.09			
ICS-01-40 (0-0.5)	10/1/2018	10/9/2018	101	0.2	0.1	< 0.09	< 0.09	0.3			
ICS-01-41 (0-0.5)	10/1/2018	10/12/2018	37	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-42 (0-0.5)	10/1/2018	10/11/2018	72	0.1	< 0.1	< 0.1	< 0.1	0.1			
ICS-01-43 (0-0.5)	10/1/2018	10/11/2018	65	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-44 (0-0.5)	10/1/2018	10/11/2018	38	0.3	0.3	< 0.1	< 0.1	0.6			
ICS-01-45 (0-0.5)	10/30/2018	11/5/2018	68	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2			
ICS-01-46 (0-0.5)	10/31/2018	11/5/2018	70	0.3	0.3	< 0.2	< 0.2	0.6			
ICS-01-47 (0-0.5)	10/31/2018	11/5/2018	71	0.4	0.4	< 0.2	< 0.2	0.8			
ICS-01-48 (0-0.5)	10/31/2018	11/5/2018	70	0.4	0.4	< 0.2	< 0.2	0.8			
ICS-01-49 (0-0.5)	10/31/2018	11/5/2018	76	0.6	< 0.2	< 0.2	< 0.2	0.6			
ICS-01-50 (0-0.5)	10/31/2018	11/5/2018	65	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2			
ICS-01-51 (0-0.5)	10/31/2018	11/5/2018	64	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2			
ICS-01-52 (0-0.5)	10/31/2018	11/6/2018	77	< 0.1	0.1	< 0.1	< 0.1	0.1			
ICS-01-53 (0-0.5)	10/31/2018	11/6/2018	59	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-01-54 (0-0.5)	10/31/2018	11/6/2018	52	< 0.1	0.2	< 0.1	< 0.1	0.2			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

5. Bold indicates an exceedance of the applicable disposal action level.

6. **Red** indicates an exceedance of the applicable Method 1 RDEC Objective.

7. SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-01-55 (0-0.5)	10/31/2018	11/6/2018	79	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-01-56 (0-0.5)	10/31/2018	11/6/2018	66	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-01-57 (0-0.5)	10/31/2018	11/6/2018	63	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-01-58 (0-0.5)	10/31/2018	11/6/2018	67	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-01-59 (0-0.5)	10/31/2018	11/6/2018	33	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-01-60 (0-0.5)	9/27/2019	10/7/2019	94	< 0.09	0.3	< 0.09	< 0.09	0.3			
ICS-01-61 (0-0.5)	9/27/2019	10/7/2019	91	< 0.09	0.3	< 0.09	< 0.09	0.3			
ICS-01-62 (0-0.5)	9/27/2019	10/7/2019	92	< 0.09	0.3	< 0.09	< 0.09	0.3			
ICS-01-63 (0-0.5)	9/27/2019	10/7/2019	77	< 0.1	0.3	< 0.1	< 0.09	0.3			
ICS-01-64 (0-0.5)	9/27/2019	10/7/2019	75	< 0.09	0.1	< 0.09	< 0.09	0.1			
ICS-01-65 (0-0.5)	1/3/2020	1/10/2020	93	< 0.1	0.1	< 0.1	< 0.1	0.1			
ICS-01-66 (0-0.5)	1/3/2020	1/10/2020	103	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-01-67 (0-0.5)	1/3/2020	1/10/2020	88	< 0.1	1.4	< 0.1	< 0.1	1.4			
ICS-01-68 (0-0.5)	1/3/2020	1/10/2020	59	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-69 (0-0.5)	1/3/2020	1/10/2020	81	0.4	0.6	< 0.1	< 0.1	1.0			
ICS-01-70 (0-0.5)	1/3/2020	1/10/2020	76	0.7	1.0	< 0.1	< 0.1	1.7			
ICS-01-71 (0-0.5)	1/3/2020	1/10/2020	75	0.5	0.7	< 0.1	< 0.1	1.2			
ICS-01-72 (0-0.5)	1/3/2020	1/10/2020	84	0.2	< 0.1	0.3	< 0.1	0.5			
ICS-01-73 (0-0.5)	1/3/2020	1/14/2020	51	0.2	0.1	< 0.1	< 0.1	0.3			
ICS-01-74 (0-0.5)	5/28/2020	6/9/2020	83	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-01-75 (0-0.5)	5/28/2020	6/9/2020	74	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-01-76 (0-0.5)	5/28/2020	6/9/2020	89	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-77 (0-0.5)	5/28/2020	6/9/2020	94	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-01-78 (0-0.5)	5/28/2020	6/9/2020	48	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-01-79 (0-0.5)	5/28/2020	6/9/2020	85	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-01-80 (0-0.5)	5/28/2020	6/9/2020	95	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-81 (0-0.5)	5/28/2020	6/9/2020	45	< 0.1	0.6	< 0.1	< 0.1	0.6			
ICS-01-82 (0-0.5)	9/2/2020	9/9/2020	68	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09			
ICS-01-83 (0-0.5)	9/2/2020	9/9/2020	77	< 0.1	4.0	< 0.1	< 0.1	4.0			
ICS-01-84 (0-0.5)	9/2/2020	9/9/2020	79	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

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8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-01-85 (0-0.5)	9/2/2020	9/9/2020	59	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-01-86 (0-0.5)	9/2/2020	9/9/2020	67	< 0.1	0.9	< 0.1	< 0.1	0.9			
ICS-01-87 (0-0.5)	4/27/2021	5/5/2021	78	0.3	0.5	< 0.1	< 0.1	0.8			
ICS-01-88 (0-0.5)	4/27/2021	5/5/2021	72	0.2	0.2	< 0.09	< 0.09	0.4			
ICS-01-89 (0-0.5)	4/27/2021	5/5/2021	75	0.2	0.2	< 0.09	< 0.09	0.4			
ICS-01-90 (0-0.5)	4/27/2021	5/5/2021	83	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-91 (0-0.5)	4/27/2021	5/5/2021	84	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-92 (0-0.5)	4/27/2021	5/5/2021	87	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-93 (0-0.5)	4/27/2021	5/5/2021	78	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-94 (0-0.5)	4/27/2021	5/5/2021	65	0.2	< 0.1	< 0.1	< 0.1	0.2			
ICS-01-95 (0-0.5)	4/27/2021	5/5/2021	80	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09			
ICS-01-96 (0-0.5)	4/27/2021	5/5/2021	92	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-97 (0-0.5)	4/27/2021	5/4/2021	97	< 0.1	5.8	< 0.1	< 0.1	5.8			
ICS-01-98 (0-0.5)	9/1/2021	9/7/2021	76	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-01-99 (0-0.5)	9/1/2021	9/7/2021	75	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-100 (0-0.5)	9/1/2021	9/7/2021	82	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-101 (0-0.5)	9/1/2021	9/7/2021	89	< 0.1	0.6	< 0.1	< 0.1	0.6			
ICS-01-102 (0-0.5)	9/1/2021	9/7/2021	86	< 0.1	1.0	< 0.1	< 0.1	1.0			
ICS-01-103 (0-0.5)	9/1/2021	9/7/2021	82	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-01-104 (0-0.5)	10/21/2021	10/25/2021	111	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-01 (0-0.5)	10/2/2018	10/11/2018	76	0.2	< 0.1	< 0.1	< 0.1	0.2			
ICS-02-02 (0-0.5)	10/2/2018	10/11/2018	65	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-03 (0-0.5)	10/2/2018	10/11/2018	66	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-04 (0-0.5)	10/2/2018	10/11/2018	59	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-05 (0-0.5)	10/2/2018	10/11/2018	78	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-06 (0-0.5)	10/2/2018	10/11/2018	69	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-02-07 (0-0.5)	10/2/2018	10/11/2018	69	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-02-08 (0-0.5)	10/2/2018	10/11/2018	74	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-09 (0-0.5)	10/2/2018	10/11/2018	86	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-10 (0-0.5)	10/2/2018	10/11/2018	56	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

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Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-02-11 (0-0.5)	10/2/2018	10/11/2018	60	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-12 (0-0.5)	10/2/2018	10/11/2018	72	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-13 (0-0.5)	10/2/2018	10/11/2018	75	0.1	< 0.1	< 0.1	< 0.1	0.1			
ICS-02-14 (0-0.5)	10/2/2018	10/11/2018	79	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-15 (0-0.5)	10/2/2018	10/11/2018	77	< 0.1	0.1	< 0.1	< 0.1	0.1			
ICS-02-16 (0-0.5)	9/1/2021	9/11/2021	66	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-17 (0-0.5)	9/1/2021	9/11/2021	73	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-02-18 (0-0.5)	9/1/2021	9/11/2021	84	16.4	< 0.1	< 0.1	< 0.1	16.4			
ICS-03-01 (0-0.5)	10/2/2018	10/11/2018	68	< 0.1	1.5	< 0.1	< 0.1	1.5			
ICS-03-02 (0-0.5)	10/2/2018	10/11/2018	72	1.4	1.2	< 0.1	< 0.1	2.6			
ICS-03-03 (0-0.5)	10/2/2018	10/11/2018	76	0.7	0.9	< 0.1	< 0.1	1.6			
ICS-03-04 (0-0.5)	10/2/2018	10/11/2018	59	1.2	1.0	< 0.1	< 0.1	2.2			
ICS-03-05 (0-0.5)	10/2/2018	10/11/2018	77	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-03-06 (0-0.5)	10/2/2018	10/11/2018	81	< 0.1	0.7	< 0.1	< 0.1	0.7			
ICS-03-07 (0-0.5)	10/2/2018	10/11/2018	80	< 0.1	0.4	< 0.1	< 0.1	0.4			
ICS-03-08 (0-0.5)	10/2/2018	10/11/2018	81	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-09 (0-0.5)	10/2/2018	10/11/2018	81	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-10 (0-0.5)	10/2/2018	10/11/2018	87	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-11 (0-0.5)	10/2/2018	10/11/2018	84	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-12 (0-0.5)	10/2/2018	10/11/2018	80	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-03-13 (0-0.5)	10/2/2018	10/11/2018	76	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-14 (0-0.5)	10/2/2018	10/11/2018	81	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-03-15 (0-0.5)	10/2/2018	10/11/2018	70	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-16 (0-0.5)	10/2/2018	10/11/2018	49	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-03-17 (0-0.5)	10/2/2018	10/11/2018	80	< 0.1	0.1	< 0.1	< 0.1	0.1			
ICS-03-18 (0-0.5)	10/2/2018	10/11/2018	83	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-19 (0-0.5)	10/30/2018	11/6/2018	84	< 0.1	15.7	< 0.1	< 0.1	15.7			
ICS-03-19 (0.5-1)	9/26/2019	10/3/2019	78	< 0.09	0.3	< 0.09	< 0.09	0.3			
ICS-03-19 (1-2)	9/26/2019	10/3/2019	83	< 0.09	<0.09	<0.09	<0.09	< 0.09			
ICS-03-19 (2-3)	9/26/2019	10/3/2019	48	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

5. **Bold** indicates an exceedance of the applicable disposal action level.

6. **Red** indicates an exceedance of the applicable Method 1 RDEC Objective.

7. SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-03-20 (0-0.5)	10/30/2018	11/6/2018	82	< 0.1	6.4	< 0.1	< 0.1	6.4			
ICS-03-21 (0-0.5)	10/30/2018	11/6/2018	75	< 0.1	7.5	< 0.1	< 0.1	7.5			
ICS-03-21 (0.5-1)	9/26/2019	10/3/2019	81	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-21 (1-2)	9/26/2019	10/3/2019	83	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09			
ICS-03-21 (2-3)	9/26/2019	10/3/2019	85	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09			
ICS-03-22 (0-0.5)	2/28/2019	3/6/2019	94	< 0.1	0.8	< 0.1	< 0.1	0.8			
ICS-03-23 (0-0.5)	2/28/2019	3/6/2019	93	< 0.09	1.3	< 0.09	< 0.09	1.3			
ICS-03-23 (0.5-1)	1/13/2020	1/13/2020	93	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-23 (1-2)	1/3/2020	1/13/2020	89	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-23 (2-3)	1/3/2020	1/13/2020	94	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-03-24 (0-0.5)	2/28/2019	3/6/2019	68	< 0.01	0.9	< 0.1	< 0.1	0.9			
ICS-03-25 (0-0.5)	2/28/2019	3/6/2019	87	< 0.09	1.4	< 0.1	< 0.09	1.4			
ICS-03-26 (0-0.5)	2/28/2019	3/6/2019	52	< 0.09	1.5	< 0.09	< 0.09	1.5			
ICS-03-27 (0-0.5)	2/28/2019	3/6/2019	82	< 0.1	2.1	< 0.1	< 0.1	2.1			
ICS-03-27 (0.5-1)	1/3/2020	1/13/2020	85	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-03-27 (1-2)	1/3/2020	1/13/2020	84	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-03-27 (2-3)	1/3/2020	1/13/2020	63	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-03-28 (0-0.5)	2/28/2019	3/6/2019	68	< 0.09	1.9	< 0.09	< 0.09	1.9			
ICS-03-29 (0-0.5)	2/28/2019	3/6/2019	72	< 0.09	2.5	< 0.09	< 0.09	2.5			
ICS-03-30 (0-0.5)	2/28/2019	3/6/2019	90	< 0.09	1.0	< 0.09	< 0.09	1.0			
ICS-03-31 (0-0.5)	2/28/2019	3/6/2019	68	< 0.09	1.5	< 0.09	< 0.09	1.5			
ICS-03-32 (0-0.5)	2/28/2019	3/5/2019	59	< 0.1	1.1	< 0.1	< 0.1	1.1			
ICS-03-33 (0-0.5)	2/28/2019	3/5/2019	77	< 0.1	6.0	< 0.1	< 0.1	6.0			
ICS-03-33 (1-2)	1/3/2020	1/13/2020	79	0.4	0.3	< 0.1	< 0.1	0.7			
ICS-03-33 (2-3)	1/3/2020	1/13/2020	83	0.2	0.1	< 0.1	< 0.1	0.3			
ICS-03-34 (0-0.5)	2/28/2019	3/5/2019	78	< 0.1	1.9	< 0.1	< 0.1	1.9			
ICS-03-35 (0-0.5)	2/28/2019	3/5/2019	59	< 0.1	1.7	< 0.1	< 0.1	1.7			
ICS-03-36 (0-0.5)	2/28/2019	3/5/2019	68	< 0.09	1.9	< 0.09	< 0.09	1.9			
ICS-03-37 (0-0.5)	2/28/2019	3/6/2019	69	< 0.1	8.2	< 0.1	< 0.1	8.2			
ICS-03-38 (0-0.5)	2/28/2019	3/6/2019	57	< 0.1	15.5	< 0.1	< 0.1	15.5			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

5. **Bold** indicates an exceedance of the applicable disposal action level.

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8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-03-38 (0.5-1)	9/26/2019	10/3/2019	76	< 0.1	1.3	< 0.1	< 0.1	1.3			
ICS-03-38 (1-2)	9/26/2019	10/3/2019	81	< 0.09	0.5	<0.9	< 0.09	0.5			
ICS-03-38 (2-3)	9/26/2019	10/3/2019	89	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-03-39 (0-0.5)	2/28/2019	3/6/2019	77	< 0.09	2.1	< 0.09	< 0.09	2.1			
ICS-03-40 (0-0.5)	2/28/2019	3/7/2019	SD	<5.0	172	<5.0	<5.0	172			
ICS-03-40 (0.5-1)	9/26/2019	10/3/2019	91	< 0.1	7.1	< 0.1	< 0.1	7.1			
ICS-03-40 (1-2)	9/26/2019	10/3/2019	88	< 0.09	1.0	< 0.09	< 0.09	1.0			
ICS-03-40 (2-3)	9/26/2019	10/7/2019	95	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-03-40 (3-4)	9/26/2019	10/7/2019	106	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-41 (0-0.5)	2/28/2019	3/6/2019	84	< 0.1	3.7	< 0.1	< 0.1	3.7			
ICS-03-42 (0-0.5)	2/28/2019	3/6/2019	82	< 0.1	11	< 0.1	< 0.1	11.0			
ICS-03-43 (0-0.5)	9/26/2019	10/7/2019	SD	<2.0	47.6	<2.0	<2.0	47.6			
ICS-03-43 (0.5-1)	9/26/2019	10/3/2019	80	< 0.09	2.1	< 0.09	< 0.09	2.1			
ICS-03-43 (1-2)	9/26/2019	10/3/2019	82	< 0.1	1.4	< 0.1	< 0.1	1.4			
ICS-03-43 (2-3)	9/26/2019	10/3/2019	91	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-03-44 (0-0.5)	9/26/2019	10/8/2019	SD	<500	9080	<500	<500	9,080			
ICS-03-44 (0.5-1)	1/3/2020	1/13/2020	SD	<1010	3,300	<1010	<1010	3,300			
ICS-03-44 (1-2)	1/3/2019	1/13/2020	SD	<99.3	1,100	<99.3	<99.3	1,100			
ICS-03-44 (2-3)	1/3/2020	1/13/2020	SD	<2.0	69.6	<2.0	<2.0	69.6			
ICS-03-44 (3-4)	1/3/2020	1/14/2020	SD	<24.5	180	<24.5	<24.5	180.0			
ICS-03-45 (0-0.5)	9/29/2019	10/8/2019	SD	<930	27,700	<930	<930	27,700			
ICS-03-45 (0.5-1)	1/3/2020	1/13/2020	SD	<1020	20,900	<1020	<1020	20,900			
ICS-03-45 (1-2)	1/3/2020	1/13/2020	SD	<1000	13,400	<1000	<1000	13,400			
ICS-03-45 (2-3)	1/3/2020	1/13/2020	SD	<1000	8,970	<1000	<1000	8,970			
ICS-03-45 (3-4)	1/3/2020	1/13/2020	SD	<993	12,000	<993	<993	12,000			
ICS-03-46 (0-0.5)	9/29/2019	10/7/2019	95	< 0.1	2.8	< 0.1	< 0.1	2.8			
ICS-03-47 (0-0.5)	9/26/2019	10/7/2019	83	< 0.1	2.6	< 0.1	< 0.1	2.6			
ICS-03-48 (0-0.5)	9/26/2019	10/7/2019	83	< 0.09	0.9	< 0.09	< 0.09	0.9			
ICS-03-49 (0-0.5)	1/3/2020	1/13/2020	82	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-50 (0-0.5)	1/3/2020	1/13/2020	88	< 0.1	0.4	< 0.1	< 0.1	0.4			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

5. Bold indicates an exceedance of the applicable disposal action level.

6. **Red** indicates an exceedance of the applicable Method 1 RDEC Objective.

7. SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-03-51 (0-0.5)	1/3/2020	1/13/2020	86	< 0.1	0.7	< 0.1	< 0.1	0.7			
ICS-03-52 (0-0.5)	1/3/2020	1/10/2020	81	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-53 (0-0.5)	1/3/2020	1/10/2020	83	< 0.1	0.6	< 0.1	< 0.1	0.6			
ICS-03-54 (0-0.5)	1/3/2020	1/10/2020	88	< 0.1	0.6	< 0.1	< 0.1	0.6			
ICS-03-55 (0-0.5)	1/3/2020	1/10/2020	71	< 0.1	0.9	< 0.1	< 0.1	0.9			
ICS-03-56 (0-0.5)	1/3/2020	1/10/2020	77	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-57 (0-0.5)	5/28/2020	6/9/2020	113	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-58 (0-0.5)	5/28/2020	6/9/2020	76	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-03-59 (0-0.5)	5/28/2020	6/9/2020	77	< 0.1	0.9	< 0.1	< 0.1	0.9			
ICS-03-60 (0-0.5)	5/28/2020	6/9/2020	85	< 0.1	0.9	< 0.1	< 0.1	0.9			
ICS-03-61 (0-0.5)	9/2/2020	9/10/2020	66	< 0.1	0.6	< 0.1	< 0.1	0.6			
ICS-03-62 (0-0.5)	9/2/2020	9/10/2020	58	< 0.1	0.6	< 0.1	< 0.1	0.6			
ICS-03-63 (0-0.5)	9/2/2020	9/10/2020	66	< 0.1	0.4	< 0.1	< 0.1	0.4			
ICS-03-64 (0-0.5)	9/2/2020	9/10/2020	66	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-65 (0-0.5)	9/2/2020	9/10/2020	67	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-03-66 (0-0.5)	9/2/2020	9/10/2020	54	< 0.1	0.4	< 0.1	< 0.1	0.4			
ICS-03-67 (0-0.5)	9/2/2020	9/10/2020	53	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-03-68 (0-0.5)	9/2/2020	9/10/2020	64	< 0.1	0.7	< 0.1	< 0.1	0.7			
ICS-03-69 (0-0.5)	9/2/2020	9/10/2020	53	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-03-70 (0-0.5)	9/2/2020	9/10/2020	52	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-03-71 (0-0.5)	4/27/2021	5/4/2021	90	< 0.1	5.6	< 0.1	< 0.1	5.6			
ICS-04-01 (0-0.5)	10/2/2018	10/11/2018	72	< 0.1	1	< 0.1	< 0.1	1.0			
ICS-04-02 (0-0.5)	10/2/2018	10/11/2018	80	< 0.1	0.1	< 0.1	< 0.1	0.1			
ICS-04-03 (0-0.5)	10/2/2018	10/11/2018	65	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-04 (0-0.5)	10/3/2018	10/12/2018	57	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-05 (0-0.5)	10/3/2018	10/12/2018	69	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-06 (0-0.5)	10/3/2018	10/12/2018	70	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-07 (0-0.5)	10/3/2018	10/12/2018	90	< 0.1	< 0.1	< 0.1	<0.1	< 0.1			
ICS-04-08 (0-0.5)	10/3/2018	10/12/2018	86	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-09 (0-0.5)	10/3/2018	10/12/2018	88	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

5. Bold indicates an exceedance of the applicable disposal action level.

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7. SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-04-10 (0-0.5)	10/3/2018	10/12/2018	95	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-11 (0-0.5)	10/3/2018	10/12/2018	90	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-12 (0-0.5)	10/3/2018	10/12/2018	95	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-13 (0-0.5)	10/3/2018	10/12/2018	83	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-14 (0-0.5)	10/3/2018	10/12/2018	93	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-04-15 (0-0.5)	10/30/2018	11/6/2018	78	< 0.1	0.8	< 0.1	< 0.1	0.8			
ICS-04-16 (0-0.5)	10/30/2018	11/6/2018	80	< 0.1	1.5	< 0.1	< 0.1	1.5			
ICS-04-17 (0-0.5)	9/27/2019	10/7/2019	75	< 0.09	0.6	< 0.09	< 0.09	0.6			
ICS-04-18 (0-0.5)	9/27/2019	10/7/2019	66	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-04-19 (0-0.5)	9/27/2019	10/7/2019	73	< 0.1	0.6	< 0.1	< 0.1	0.6			
ICS-04-20 (0-0.5)	9/27/2019	10/7/2019	75	< 0.1	0.9	< 0.1	< 0.1	0.9			
ICS-04-21 (0-0.5)	1/3/2020	1/10/2020	77	0.3	0.5	< 0.1	< 0.1	0.8			
ICS-04-22 (0-0.5)	1/3/2020	1/10/2020	83	0.4	0.4	< 0.1	< 0.1	0.8			
ICS-04-23 (0-0.5)	1/3/2020	1/10/2020	81	0.2	0.3	< 0.1	< 0.1	0.5			
ICS-04-24 (0-0.5)	1/3/2020	1/10/2020	76	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-04-25 (0-0.5)	5/29/2020	6/9/2020	76	< 0.1	0.7	< 0.1	< 0.1	0.7			
ICS-04-26 (0-0.5)	5/29/2020	6/9/2020	67	< 0.1	3.0	< 0.1	< 0.1	3.0			
ICS-04-27 (0-0.5)	5/29/2020	6/9/2020	86	< 0.1	2.1	< 0.1	< 0.1	2.1			
ICS-04-28 (0-0.5)	9/2/2020	9/10/2020	47	< 0.1	0.9	< 0.1	< 0.1	0.9			
ICS-04-29 (0-0.5)	9/2/2020	9/10/2020	56	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-04-30 (0-0.5)	9/2/2020	9/10/2020	47	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-04-31 (0-0.5)	9/2/2020	9/10/2020	53	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-04-32 (0-0.5)	9/2/2020	9/10/2020	59	< 0.1	0.5	< 0.1	< 0.1	0.5			
ICS-04-33 (0-0.5)	4/27/2021	5/4/2021	84	0.5	0.5	< 0.1	< 0.1	1.0			
ICS-04-34 (0-0.5)	4/27/2021	5/4/2021	68	0.2	0.3	< 0.1	< 0.1	0.5			
ICS-04-35 (0-0.5)	4/27/2021	5/4/2021	77	0.5	0.7	< 0.1	< 0.1	1.2			
ICS-04-36 (0-0.5)	4/27/2021	5/5/2021	79	0.3	0.4	< 0.1	< 0.1	0.7			
ICS-05-01 (0-0.5)	10/3/2018	10/12/2018	93	< 0.1	0.1	< 0.1	< 0.1	0.1			
ICS-05-02 (0-0.5)	10/3/2018	10/12/2018	96	< 0.1	0.4	< 0.1	< 0.1	0.4			
ICS-05-03 (0-0.5)	10/3/2018	10/12/2018	76	< 0.1	0.5	< 0.1	< 0.1	0.5			
EPA Standard								1			
RDFC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

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Table 1 - Concrete Floor and Ceiling Analytical Results (Continued)											
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs			
ICS-05-04 (0-0.5)	10/3/2018	10/12/2018	79	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			
ICS-05-05 (0-0.5)	10/3/2018	10/12/2018	88	< 0.1	0.2	< 0.1	< 0.1	0.2			
ICS-05-06 (0-0.5)	10/3/2018	10/12/2018	91	< 0.1	< 0.1	< 0.1	<0.1	< 0.1			
ICS-05-07 (0-0.5)	10/3/2018	10/12/2018	87	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-05-08 (0-0.5)	10/3/2018	10/12/2018	80	< 0.1	0.3	< 0.1	<0.1	0.3			
ICS-05-09 (0-0.5)	10/3/2018	10/12/2018	81	< 0.1	0.3	< 0.1	< 0.1	0.3			
ICS-05-10 (0-0.5)	10/3/2018	10/10/2018	75	< 0.1	0.2	< 0.1	<0.1	0.2			
ICS-05-11 (0-0.5)	4/27/2021	5/5/2021	92	0.3	0.6	< 0.1	<0.1	0.9			
ICS-05-12 (0-0.5)	4/27/2021	5/5/2021	91	< 0.1	0.6	< 0.1	<0.1	0.6			
EPA Standard								1			
RDEC								10			

1. Sample ID includes depth in inches collected below grade.

2. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. < denotes analyte was not detected above the laboratory detection limit.

5. **Bold** indicates an exceedance of the applicable disposal action level.

6. **Red** indicates an exceedance of the applicable Method 1 RDEC Objective. 7. SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

8. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

Table 2 - Concrete Wall Analytical Results												
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1268	Total PCBs					
CW-01-01	5/28/2020	6/10/2020	89	0.5	0.3	< 0.1	0.8					
CW-01-02	5/28/2020	6/10/2020	76	0.5	0.2	< 0.1	0.7					
CW-01-03	5/28/2020	6/10/2020	86	< 0.1	< 0.1	< 0.1	< 0.1					
CW-01-04	5/28/2020	6/10/2020	82	0.1	< 0.1	< 0.1	0.1					
CW-01-05	5/28/2020	6/10/2020	79	< 0.1	< 0.1	< 0.1	< 0.1					
CW-01-06	5/28/2020	6/10/2020	80	< 0.1	< 0.1	< 0.1	< 0.1					
CW-01-07	5/28/2020	6/10/2020	89	< 0.1	0.1	< 0.1	0.1					
CW-01-08	5/28/2020	6/10/2020	88	< 0.1	< 0.1	< 0.1	< 0.1					
CW-01-09	5/28/2020	6/10/2020	82	< 0.1	< 0.1	< 0.1	< 0.1					
CW-01-10	9/2/2020	9/9/2020	86	< 0.1	< 0.1	< 0.1	< 0.1					
CW-01-11	9/2/2020	9/9/2020	81	0.2	< 0.1	< 0.1	0.2					
CW-01-12	4/27/2021	5/6/2021	83	0.3	0.3	< 0.09	0.6					
CW-03-01	9/27/2019	10/7/2019	83	< 0.09	< 0.09	< 0.09	< 0.09					
CW-03-02	9/27/2019	10/7/2019	94	< 0.1	0.6	< 0.1	0.6					
CW-03-03	9/27/2019	10/7/2019	90	< 0.1	< 0.1	< 0.1	< 0.1					
CW-03-04	5/28/2020	6/10/2020	89	< 0.1	0.5	< 0.1	0.5					
CW-03-05	5/28/2020	6/10/2020	96	< 0.1	0.6	< 0.1	0.6					
CW-04-01	1/3/2020	1/9/2020	61	< 0.1	< 0.1	< 0.1	< 0.1					
CW-04-02	1/3/2020	1/9/2020	68	< 0.1	0.2	< 0.1	0.2					
CW-04-03	1/3/2020	1/9/2020	65	< 0.1	< 0.1	< 0.1	< 0.1					
CW-04-04	5/29/2020	6/10/2020	92	< 0.1	< 0.1	< 0.1	< 0.1					
CW-04-05	9/2/2020	9/9/2020	80	< 0.1	< 0.1	< 0.1	< 0.1					
EPA Standar	d						1					
RDEC							10					

1. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

2. Analytical results are reported in milligrams per kilogram (mg/kg).

3. < denotes analyte was not detected above the laboratory detection limit.

4. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

		Table 3	- Brick Wall	Analytical	Results		
Sample ID	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor- 1254	Aroclor- 1260	Aroclor- 1268	Total PCBs
BR-03-01	9/27/2019	10/3/2019	86	< 0.1	1.4	< 0.1	1.4
BR-03-02	9/27/2019	10/3/2019	84	< 0.09	0.4	< 0.09	0.4
BR-03-03	9/27/2019	10/3/2019	78	< 0.1	0.1	< 0.1	0.1
BR-03-04	9/27/2019	10/4/2019	84	< 0.09	0.2	< 0.2	0.2
BR-03-05	9/27/2019	10/4/2019	83	< 0.09	< 0.09	< 0.09	< 0.09
BR-03-06	9/27/2019	10/4/2019	80	< 0.1	0.2	< 0.1	0.2
BR-03-07	4/27/2021	5/5/2021	69	< 0.1	0.3	< 0.1	0.3
BR-03-08	4/27/2021	5/5/2021	85	< 0.09	0.2	< 0.09	0.2
BR-03-09	4/27/2021	5/5/2021	60	< 0.1	1.5	< 0.1	1.5
BR-03-10	9/2/2021	9/7/2021	87	< 0.1	0.5	< 0.1	0.5
Brick-04-01	9/2/2020	9/9/2020	74	< 0.1	< 0.1	< 0.1	< 0.1
BR-04-02	9/2/2021	9/7/2021	87	< 0.1	0.3	< 0.1	0.3
EPA Standar	d						1
RDEC							10

1. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

2. < indicates analyte was not detected above the laboratory detection limit.

3. Analytical results are reported in milligrams per kilogram (mg/kg).

4. Bold indicates an exceedance of the EPA action level for unrestricted future Site use.

5. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

			Table 4 - Paint Anal	ytical Result	5								
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-01	Dark Green Paint	1	Cable Vault - East Hallway, Southern Door	Metal	3.2	10,800	107,000	< 0.05	4.7	5.5	< 0.05	0.7	10.9
PS-02	Dark Green Paint	1	Cable Vault - East Hallway, Lower Portion of Wall	Brick	3.52	8,710	50,600	< 0.05	5.1	1.6	< 0.05	0.3	7.0
PS-03	White Paint	1	Cable Vault - East Hallway, Upper Portion of Wall	Brick	10.1	<3.7	175	< 0.05	1.3	0.5	< 0.05	< 0.05	1.8
PS-04	Gray Paint Underlain by Black and Red Paint	1	Cable Vault - Cabinet Doors	Composite	588	21.7	64,900	< 0.05	10.4	3.8	< 0.05	< 0.05	14.2
PS-05	Orange Paint Underlain by Black and Red Paint	1	Cable Vault - Cabinet Doors	Composite	12.0	26,100	88,800	< 0.05	7.4	5.1	< 0.05	< 0.05	12.5
PS-06	Yellow Paint Underlain by Red and Green Paint	1	Cable Vault - Fire Extinguisher Marking	Brick	51.8	11,200	47,300	< 0.05	3.3	1.4	< 0.05	< 0.05	4.7
PS-07	Dark Green Paint	1	Cable Vault - Green Door	Metal	37.9	6,980	41,500	< 0.05	4.6	3.9	< 0.05	< 0.05	8.5
PS-08	Cream Paint Underlain By Dark Green Paint	1	Cable Vault - West Hallway, Wall	Concrete	11.9	8,820	50,300	< 0.05	2.4	1.4	< 0.05	0.3	4.1
PS-09	Dark Green Paint	1	Cable Vault - West Hallway, Green Door	Metal	3.83	7,610	82,300	< 0.05	4.5	3.3	< 0.05	0.8	8.6
PS-10	Dark Green Paint	1	Cable Vault - West Hallway, Wall	Concrete	5.49	10,700	62,700	< 0.05	4.1	3.8	< 0.05	< 0.05	7.9
PS-11	White Paint	1	Cable Vault - West Hallway, Wall	Concrete	22.0	40.8	572	< 0.05	2.4	1.6	< 0.05	< 0.05	4.0
PS-12	Brown Paint	1	Cable Vault - West Door to Elevator Shaft	Wood	6.12	6,910	35,800	< 0.05	3.2	3.6	< 0.05	< 0.05	6.8
PS-13	Gray Paint	1	Cable Vault - Elevator Shaft Wall	Concrete	<4.17	178	964	< 0.05	0.3	0.4	< 0.05	< 0.05	0.7
PS-14	Dark Green Paint	1	Cable Vault - Stairs	Concrete	23.0	3,470	24,500	< 0.05	6.8	18.5	< 0.05	< 0.05	25.3
PS-15	Light Green Paint	1	Locker Room - Foyer, Lower Wall	Concrete	1.98	9,250	49,800	< 0.05	< 0.05	12.7	< 0.05	< 0.05	12.7
PS-16	White Paint	1	Locker Room - Foyer, Upper Wall	Concrete	9.1	3,840	21,800	< 0.05	< 0.05	4.3	< 0.05	< 0.05	4.3
PS-17	Dark Green Paint	2	Landing - Stair Handrail	Concrete	9.89	14,100	81,200	< 0.05	< 0.05	45.0	< 0.05	< 0.05	45.0
PS-18	Tan Paint Underlain by White and Light Green Paint	2	Office 1 - West Wall	Brick	5.46	4,010	21,800	< 0.05	1.7	3.1	< 0.05	0.6	5.4
PS-19	White Paint	2	Office 1 - Ceiling	Concrete	9.18	11.0	220	< 0.05	1.2	1.7	< 0.05	0.5	3.4
PS-20	White Paint	2	Office 3 - South Wall	Concrete	22.3	<3.64	32.3	< 0.05	0.3	0.3	< 0.05	0.1	0.7
PS-21	Light Green Paint Underlain by White and Black Paint	2	Office 3 - North Wall	Concrete	10.3	9,400	60,400	< 0.05	3.2	4.9	< 0.05	1.1	9.2
PS-22	Green Paint Underlain by White Paint	2	Office 2 - West Wall, Former Cabinet Marking	Concrete	18.4	4,880	32,100	< 0.3	0.9	1.1	< 0.3	< 0.3	2.0
PS-23	Black Paint Underlain by Red and Green Paint	2	Office 2 - South Baseboard	Wood	10.2	5,890	32,900	0.4	1.8	2.4	< 0.1	0.5	4.2
PS-24	Gray Paint	2	Room A: Reactor Room - Cabinet	Composite	140	8.48	77,900	< 0.05	1.1	0.9	< 0.05	0.3	2.4
PS-25	Orange Paint	2	Room A: Reactor Room - Cabinet	Composite	10.3	8,390	62,700	< 0.07	1.9	1.7	< 0.07	0.5	4.1
PS-26	Yellow Paint Underlain by Gray and Light Green Paint	2	Room A: Reactor Room - Concrete Shelf	Concrete	9.84	9,060	44,600	< 0.3	3.5	4.3	< 0.3	1.4	9.2
PS-27	Gray Paint	2	Room A: Reactor Room - Concrete Shelf	Concrete	7.39	4,150	23,600	< 0.8	3.5	3.2	< 0.8	1	7.7
PS-28	Red Paint	2	Room A: Reactor Room - Fire Extinguisher Marking	Brick	<45.5	11,400	64,100	<22.7	<22.7	<22.7	<22.7	<22.7	<22.7
PS-29	Dark Green Paint	2	Room A: Reactor Room - East Wall Behind Air Ducts	Brick	6.52	10,400	66,100	<2.6	4.8	<2.6	<2.6	<2.6	4.8
Disposal Ac	ction Level				20	100	100						1
EPA Standa	urd												1
RDEC													10
Notes:													

1. Concentrations are presented in milligrams per kilogram (mg/kg).

2. **Bold** indicates an exceedance of the applicable Disposal Action Level.

3. Red indicates an exceedance of the applicable Method 1 RDEC Objective.

. < indicates the analyte was not detected above the specified laboratory detection limit.

5. NT indicates not tested for the specific analyte.

6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.

7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

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Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-30	Cream Paint	2	Room A: Reactor Room - East Wall Behind Air Ducts	Brick	7.6	57.2	615	<2.2	3.2	<2.2	<2.2	<2.2	3.2
PS-31	Yellow Paint	2	Room B: Main Switchboard Room - Battery Box	Wood	<2.3	27.2	69.6	<1.1	2.9	2.4	<1.1	<1.1	5.3
PS-32	White Paint Underlain by Dark Green Paint	2	Room B: Main Switchboard Room - North Wall	Concrete	133	2,330	30,900	< 0.05	1.2	3.0	< 0.05	0.9	5.1
PS-33	Light Green Paint Underlain by Dark Green Paint	2	Room B: Main Switchboard Room - North Wall	Concrete	139	4,210	44,700	< 0.05	1.7	5.0	< 0.05	2.2	8.9
PS-34	Tan Paint Underlain by Yellow Red and Black Paint	2	Room C: Lower OCB Potential Transformer Room - West Wall	Concrete	9.44	10,400	47,200	< 0.05	3.1	7.0	< 0.05	1.8	11.9
PS-35	Dark Green Paint	3	East Hallway - West Wall	Concrete	38.5	3,460	43,500	< 0.05	< 0.05	11.8	< 0.05	< 0.05	11.8
PS-36	Gray Paint Underlain by Light Tan Paint	3	East Hallway - West Wall	Brick	80.5	14.0	7,880	< 0.08	< 0.08	9.5	< 0.08	< 0.08	9.5
PS-37	Orange Paint	3	Room C: Lower OCB Potential Transformer Room - West Wall Cabinet	Metal	<3.23	23,600	101,000	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1
PS-38	White Paint Underlain by Black Paint	3	Room C: Lower OCB Potential Transformer Room - Concrete Step	Concrete	11.9	2,530	9,880	<1.4	<1.4	5.4	<1.4	<1.4	5.4
PS-39	Black Paint Underlain by Dark Green Paint	3	Room D: Lower OCB Room - Northwest Door	Metal	9.27	3,930	98,300	<4.8	<4.8	84	<4.8	<4.8	84.0
PS-40	Dark Green Paint	3	Room D: Lower OCB Room - Storage Cabinet	Metal	<7.69	19,900	97,200	< 0.5	< 0.5	49.8	< 0.5	< 0.5	49.8
PS-41	White Paint	4	Room E: Potential Transformer Upper - West Wall	Brick	17.2	413	2,340	< 0.05	< 0.05	8.3	< 0.05	< 0.05	8.3
PS-42	Gray Paint Underlain by Light Tan Paint	4	Room F: Main Bus Room - West Wall	Brick	289	4.52	403	< 0.05	1.6	3.5	< 0.05	< 0.05	5.1
PS-43	Light Green Paint	5	Mezzanine - South Wall	Brick	76.3	2,870	35,900	< 0.05	1.1	1.6	< 0.05	0.3	3.0
PS-44	White Paint	5	Mezzanine - South Wall	Brick	67.5	4,750	39,500	< 0.05	< 0.05	6.5	< 0.05	< 0.05	6.5
PS-45	Dark Green Paint	5	Room G: Upper Breaker Floor - Door	Wood	2.48	5,560	61,500	< 0.05	1.6	3.3	< 0.05	< 0.05	4.9
PS-46	Pink Paint	4	Mezzanine - Temporary Wall to Stairwell	Wood	NT	NT	NT	< 0.1	< 0.1	3.4	< 0.1	< 0.1	3.4
PS-47	Silver Paint	3	Room D: Lower OCB - West Hallway, West Wall	Brick	NT	NT	NT	<1.4	<1.4	11.6	<1.4	5.6	17.2
PS-48	Brown Paint	2	Room B: Main Switchboard Room - East Wall	Metal	NT	NT	NT	< 2.3	<2.3	2.9	<2.3	< 2.3	2.9
PS-49	Gray Paint Underlain by White Paint	1	Turbine Room - Concrete Structure	Concrete	19.0	1,050	15,700	< 0.05	1.0	0.9	< 0.05	0.2	2.1
PS-50	Intermixed White, Green, and Light Green Paint	1	Turbine Room - West Wall	Concrete	18.4	4,400	111,000	< 0.05	1.8	3.6	< 0.05	0.4	5.8
PS-51	Black Paint	1	Turbine Room - Staircase	Metal	6.82	2,630	97,400	< 0.05	< 0.05	4.0	< 0.05	< 0.05	4.0
PS-52	White Paint Underlain by Light Green Paint	3	East Hallway - East Wall	Concrete	NT	NT	NT	<2.5	<2.5	49.8	<2.5	<2.5	49.8
PS-53	White Paint Underlain by Light Green Paint	3	East Hallway - East Wall	Metal	NT	NT	NT	<1.0	<1.0	23.0	<1.0	<1.0	23.0
PS-54	Dark Green Paint	3	Room C: Lower OCB Potential Transformer Room - South Wall	Brick	NT	NT	NT	< 0 05	< 0 05	3.8	< 0.05	< 0 05	3.8
PS-55	Dark Green Paint	3	Room C: Lower OCB Potential Transformer Room - West Wall	Concrete	NT	NT	NT	< 0.08	< 0.08	8.7	< 0.08	<0.08	8.7
PS-56	Dark Green Paint	4	Landing - Stair Handrail	Metal	NT	NT	NT	<6.2	<6.2	138.0	<6.2	<6.2	138.0
Disposal Ac	tion Level				20	100	100						1
EPA Standa	rd												1
RDEC													10
Notes:													-

1. Concentrations are presented in milligrams per kilogram (mg/kg).

2. **Bold** indicates an exceedance of the applicable Disposal Action Level.

3. Red indicates an exceedance of the applicable Method 1 RDEC Objective.
4. < indicates the analyte was not detected above the specified laboratory detection limit.

5. NT indicates not tested for the specific analyte.

6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.

7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

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ample bDescriptionPareLenctionValueLog Mark (Lenging Mark (Lenging Mark M				Table 4 - Paint Analytical	Results (Con	tinued)								
S-75 Light Green Pair, Underlink by Dark Green Pair. Northen Patterior - Handrale M (2010) NT NT NT NT 0.00 <th>Sample ID</th> <th>Description</th> <th>Floor</th> <th>Location</th> <th>Substrate</th> <th>Total Cadmium</th> <th>Total Chromium</th> <th>Total Lead</th> <th>Aroclor- 1242</th> <th>Aroclor- 1254</th> <th>Aroclor- 1260</th> <th>Aroclor- 1262</th> <th>Aroclor- 1268</th> <th>Total PCBs</th>	Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
Sesse Light Green Paint, Underlain by Green Paint Extenior Northern Extenior-Fanoparo Media NT NT ND NT ND NT ND	PS-57	Light Green Paint, Underlain by Dark Green Paint	Exterior	Northern Exterior - Door	Wood	NT	NT	NT	< 0.09	< 0.09	0.8	< 0.09	< 0.09	0.8
Se30 White Paint Underlain by Lingt Green Paint Period Northem Lixetori - Clange Door Meal NT NT ND ND <	PS-58	Light Green Paint, Underlain by Green Paint	Exterior	Northern Exterior - Handrail	Metal	NT	NT	NT	< 0.06	1.2	1.5	< 0.06	0.5	3.2
Sed White Underlain by Light Green Winderlain by Light Green Winderlain by Light Green Muther Listerian - Winder Materian - Wind	PS-59	White Paint Underlain by Gray Paint	Exterior	Northern Exterior - Garage Door	Metal	NT	NT	NT	< 0.2	0.9	0.7	< 0.2	< 0.2	1.6
No. Nite Paint Underland by Ligk Green Paint Exercise Westen Extension-Poor Metal NT NT NT 0.03 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.05	PS-60	White Underlain by Light Green Underlain by Tan	Exterior	Northern Exterior - Window Cover	Metal	NT	NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Se2 While Paint Ubderlain by Dark Green Paint Northom Exterior * Wall Brick NT NT NT <0.05 2.0 0.05 0.005 0	PS-61	White Paint Underlain by Light Green Paint	Exterior	Western Exterior - Door	Metal	NT	NT	NT	< 0.3	< 0.3	0.4	< 0.3	< 0.3	0.4
SeA3 White Paint 3 Fast Hallway-West Wall Concrete NT NT NT	PS-62	White Paint Underlain by Dark Green Paint	Exterior	Northern Exterior - Wall	Brick	NT	NT	NT	< 0.05	2.0	2.0	< 0.05	< 0.05	4.0
SeAd Light Green Paint 3 Task Hallway, Fast Wall Concrete NT NT V.1 V.10 V.10 V.10 V.10 V.10 V.10 V.11 V.11 <td>PS-63</td> <td>White Paint</td> <td>3</td> <td>East Hallway - West Wall</td> <td>Concrete</td> <td>NT</td> <td>NT</td> <td>NT</td> <td><2.7</td> <td><2.7</td> <td>33.3</td> <td><2.7</td> <td><2.7</td> <td>33.3</td>	PS-63	White Paint	3	East Hallway - West Wall	Concrete	NT	NT	NT	<2.7	<2.7	33.3	<2.7	<2.7	33.3
98-65 Dark Green Paint 3 Room D: Lower OCB Room - Elevater Shaft Handmal Metal NT NT <7.1 <7.2 <7.4 <7.1 <7.1 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2 <7.2<	PS-64	Light Green Paint	3	East Hallway - East Wall	Concrete	NT	NT	NT	<1.0	<1.0	10.4	<1.0	<1.0	10.4
8-66 Black Paint 3 Room D: Lower OCB Room : Center Wall Metal NT NT v3.7 v3	PS-65	Dark Green Paint	3	Room D: Lower OCB Room - West Cabinet	Metal	NT	NT	NT	<2.1	<2.1	44.6	<2.1	<2.1	44.6
%-67 Dark Green Paint 3 Room D: Lower OCB Room - Center Wall Concrete NT NT NT <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	PS-66	Black Paint	3	Room D: Lower OCB Room - Elevator Shaft Handrail	Metal	NT	NT	NT	<3.7	<3.7	97.9	<3.7	<3.7	97.9
Ps-68 Light Green Paint Underlain by Oreen Paint Lexterior South : Fire Escape Metal NT NT NT <0.3 2.6 <0.3 <0.03 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.93 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	PS-67	Dark Green Paint	3	Room D: Lower OCB Room - Center Wall	Concrete	NT	NT	NT	< 0.05	< 0.05	10.0	< 0.05	< 0.05	10.0
98-69 Dark Green Paint I Turkine Reom Sele Beam Medal NT NT NT <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	PS-68	Light Green Paint Underlain by Green Paint	Exterior	Exterior South - Fire Escape	Metal	NT	NT	NT	< 0.3	< 0.3	2.6	< 0.3	< 0.3	2.6
SP-70 Light Green Paint Underlain by White Paint 3 East Hallway, North Wall Brick NT NT NT	PS-69	Dark Green Paint	1	Turbine Room - Steel Beam	Metal	NT	NT	NT	< 0.05	< 0.05	4.9	< 0.05	< 0.05	4.9
YS-71 Light Green Paint Underlain by White Paint 3 East Hallway, North Wall Brick NT NT V.1 V.2.1 <	PS-70	Light Green Paint Underlain by White Paint	3	East Hallway, North Wall	Brick	NT	NT	NT	< 0.1	< 0.1	31.1	< 0.1	3	34.1
PS-72 Light Green Paint 3 East Hallway, West Wall Brick NT NT NT <0.1 <0.1 1.3 <0.1 1.3 <1.4.3 PS-73 Light Green Paint Underlain by White Paint 3 East Hallway, West Wall Tan Brick NT NT NT <0.4	PS-71	Light Green Paint Underlain by White Paint	3	East Hallway, North Wall	Brick	NT	NT	NT	<2.1	<2.1	44.1	<2.1	6.9	51
PS-73 Light Green Paint Underlain by White Paint 3 East Hallway, West Wall Tan Brick NT NT <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <0.4 <th< td=""><td>PS-72</td><td>Light Green Paint</td><td>3</td><td>East Hallway, West Wall</td><td>Brick</td><td>NT</td><td>NT</td><td>NT</td><td>< 0.1</td><td>< 0.1</td><td>13</td><td>< 0.1</td><td>1.3</td><td>14.3</td></th<>	PS-72	Light Green Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.1	< 0.1	13	< 0.1	1.3	14.3
%5.74 White Paint 3 East Hallway, West Wall Tan Brick NT NT NT <0.3 <0.3 29.9 <0.3 <0.3 29.9 %5.75 Light Green Paint 3 East Hallway, East Wall Concrete NT NT NT <0.5	PS-73	Light Green Paint Underlain by White Paint	3	East Hallway, West Wall	Tan Brick	NT	NT	NT	< 0.4	<0.4	30.8	<0.4	2.8	33.6
Y8-75 Light Green Paint 3 East Hallway, East Wall Concrete NT NT <0.5 <0.5 38.5 <0.5 5 43.5 Y8-76 Light Green Paint Underlain by Dark Green Paint 3 East Hallway, East Wall Concrete NT NT NT <0.3	PS-74	White Paint	3	East Hallway, West Wall	Tan Brick	NT	NT	NT	< 0.3	< 0.3	29.9	< 0.3	< 0.3	29.9
Serie Light Green Paint Underlain by Dark Green Paint 3 East Hallway, East Wall Concrete NT NT NT <0.3 <0.3 <0.4 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <	PS-75	Light Green Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.5	< 0.5	38.5	< 0.5	5	43.5
SP-7 White Paint 3 East Hallway, East Wall Concrete NT NT vol.5 vol.	PS-76	Light Green Paint Underlain by Dark Green Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.3	< 0.3	24.6	< 0.3	2.8	27.4
New Net Paint 3 East Hallway, East Wall Concrete NT NT NT <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	PS-77	White Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.5	< 0.5	29.7	< 0.5	< 0.5	29. 7
No. NT	PS-78	White Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.5	< 0.5	29.5	< 0.5	< 0.5	29.5
Y2-S-80 Light Green Paint Underlain by Dark Green Paint 3 East Hallway, West Wall Tan Brick NT NT <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	PS-79	Light Green Paint Underlain by Dark Green Paint	3	East Hallway, West Wall	Tan Brick	NT	NT	NT	< 0.4	<0.4	27.5	<0.4	2.6	30.1
PS-81 White Paint 3 East Hallway, West Wall Tan Brick NT NT <0.3 <0.3 52.7 <0.3 <0.3 52.7 <0.3 <0.3 52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3 <52.7 <0.3 <0.3	PS-80	Light Green Paint Underlain by Dark Green Paint	3	East Hallway, West Wall	Tan Brick	NT	NT	NT	< 0.5	< 0.5	53.3	< 0.5	< 0.5	53.3
PS-82 White Paint 3 East Hallway, West Wall Tan Brick NT NT <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	PS-81	White Paint	3	East Hallway, West Wall	Tan Brick	NT	NT	NT	< 0.3	< 0.3	52.7	< 0.3	< 0.3	52. 7
PS-83 White Paint 3 East Hallway, East Wall Steel NT NT <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.09 <0.01 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <t< td=""><td>PS-82</td><td>White Paint</td><td>3</td><td>East Hallway, West Wall</td><td>Tan Brick</td><td>NT</td><td>NT</td><td>NT</td><td>< 0.5</td><td>< 0.5</td><td>67.3</td><td>< 0.5</td><td>< 0.5</td><td>67.3</td></t<>	PS-82	White Paint	3	East Hallway, West Wall	Tan Brick	NT	NT	NT	< 0.5	< 0.5	67.3	< 0.5	< 0.5	67.3
PS-84 White Paint 3 East Hallway, East Wall Steel NT NT <0.1 25.7 <0.1 <0.1 25.7 PS-85 Light Green Paint 3 East Hallway, East Wall Steel NT NT NT <0.1 25.7 <0.1 <0.1 25.7 <0.1 <0.1 25.7 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	PS-83	White Paint	3	East Hallway, East Wall	Steel	NT	NT	NT	< 0.09	< 0.09	20.7	< 0.09	< 0.09	20. 7
PS-85 Light Green Paint 3 East Hallway, East Wall Steel NT NT <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <td>PS-84</td> <td>White Paint</td> <td>3</td> <td>East Hallway, East Wall</td> <td>Steel</td> <td>NT</td> <td>NT</td> <td>NT</td> <td>< 0.1</td> <td>< 0.1</td> <td>25.7</td> <td>< 0.1</td> <td>< 0.1</td> <td>25.7</td>	PS-84	White Paint	3	East Hallway, East Wall	Steel	NT	NT	NT	< 0.1	< 0.1	25.7	< 0.1	< 0.1	25.7
PS-86 Light Green Paint 3 East Hallway, East Wall Steel NT NT <0.1 <0.1 20.3 <0.1 2 22.3 Disposal Action Level 20 100 100 100 1	PS-85	Light Green Paint	3	East Hallway, East Wall	Steel	NT	NT	NT	< 0.2	< 0.2	20.4	< 0.2	< 0.2	20.4
Disposal Action Level201001EPA Standard1RDEC10	PS-86	Light Green Paint	3	East Hallway, East Wall	Steel	NT	NT	NT	< 0.1	< 0.1	20.3	< 0.1	2	22.3
EPA Standard 1 RDEC 10	Disposal Ac	tion Level				20	100	100						1
10 III	EPA Standa	rd												1
	RDEC													10

Notes:

1. Concentrations are presented in milligrams per kilogram (mg/kg).

2. **Bold** indicates an exceedance of the applicable Disposal Action Level.

3. **Red** indicates an exceedance of the applicable Method 1 RDEC Objective.

4. < indicates the analyte was not detected above the specified laboratory detection limit.

5. NT indicates not tested for the specific analyte.

6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.

7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

			Table 4 - Paint Analytical R	esults (Con	tinued)								
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-87	White Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.1	< 0.1	27.5	< 0.1	< 0.1	27.5
PS-88	White Paint Underlain by Dark Green Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.2	< 0.2	29.1	< 0.2	< 0.2	29.1
PS-89	Light Green Paint Underlain by Dark Green Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.2	< 0.2	20.8	< 0.2	2.4	23.2
PS-90	Light Green Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.2	< 0.2	20.2	< 0.2	2.3	22.5
PS-91	White Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	<0.4	<0.4	12.3	<0.4	< 0.4	12.3
PS-92	White Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	<0.4	<0.4	9.8	<0.4	< 0.4	9.8
PS-93	Light Green Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	<0.4	<0.4	7.5	<0.4	< 0.4	7.5
PS-94	Light Green Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	<0.4	<0.4	9.3	<0.4	1.3	10.6
PS-95	White Paint Underlain by Dark Green Paint	3	East Hallway, South Wall	Brick	NT	NT	NT	< 0.1	< 0.1	8.3	< 0.1	0.9	9.2
PS-96	Light Green Paint	3	East Hallway, South Wall	Brick	NT	NT	NT	< 0.1	< 0.1	6.7	< 0.1	< 0.1	6.7
PS-97	Black Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	9	< 0.1	0.7	9.7
PS-98	Black Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.09	< 0.09	7.3	< 0.09	< 0.09	7.3
PS-99	Black Paint	3	East Hallway, East Wall	Brick	NT	NT	NT	<1.1	<1.1	12.7	<1.1	<1.1	12.7
PS-100	Black Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.3	< 0.3	26.5	< 0.3	2.9	29.4
PS-101	White Paint Underlain by Black Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.1	< 0.1	35.2	< 0.1	< 0.1	35.2
PS-102	White Paint Underlain by Black Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.1	< 0.1	39.2	< 0.1	< 0.1	39.2
PS-103	Light Green Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.1	< 0.1	31.6	< 0.1	< 0.1	31.6
PS-104	Light Green Paint	3	East Hallway, West Wall	Brick	NT	NT	NT	< 0.3	< 0.3	64.2	< 0.3	< 0.3	64.2
PS-105	White Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	13.2	< 0.1	< 0.1	13.2
PS-106	White Paint	3	West Hallway, East Wall	Concrete	NT	NT	NT	< 0.2	< 0.2	21.2	< 0.2	< 0.2	21.2
PS-107	Light Green Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	24.7	< 0.1	< 0.1	24.7
PS-108	Light Green Paint	3	East Hallway, East Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	21.6	< 0.1	< 0.1	21.6
PS-109	White Paint	3	Room C: Lower OCB Potential Transformer Room - West Wall	Brick	NT	NT	NT	< 0.09	3.0	2.5	<0.09	< 0.09	5.5
PS-110	Dark Green Paint	3	Room C: Lower OCB Potential Transformer Room - West Wall	Brick	NT	NT	NT	< 0.09	1.9	2.5	<0.09	< 0.09	4.4
PS-111	White Paint	3	Room C: Lower OCB Potential Transformer Room - West Wall	Brick	NT	NT	NT	< 0.1	2.4	2.5	<0.1	<0.1	4.9
PS-112	Dark Green Paint	3	Room C: Lower OCB Potential Transformer Room - West Wall	Brick	NT	NT	NT	< 0.3	3.2	4.0	< 0.3	< 0.3	7.2
PS-113	Dark Green Paint	1	Room 2 - South Wall	Concrete	NT	NT	NT	< 0.09	2.7	2.1	< 0.09	0.3	5.1
Disposal Act	ion Level				20	100	100						1
EPA Standar	d												1
RDEC													10

1. Concentrations are presented in milligrams per kilogram (mg/kg).

2. **Bold** indicates an exceedance of the applicable Disposal Action Level.

3. Red indicates an exceedance of the applicable Method 1 RDEC Objective.
4. < indicates the analyte was not detected above the specified laboratory detection limit.

5. NT indicates not tested for the specific analyte.

6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.

7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

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			Table 4 - Paint Analytic	al Results (Con	tinued)								
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-114	White Paint	1	Room 2 - South Wall	Concrete	NT	NT	NT	< 0.09	3.4	2.4	< 0.09	< 0.09	5.8
PS-115	Dark Green Paint	1	Room 7 - South Wall	Concrete	NT	NT	NT	< 0.1	2.2	1.8	< 0.1	0.2	4.2
PS-116	Silver Paint	1	Room 7- South Wall	Concrete	NT	NT	NT	< 0.1	1.3	0.7	< 0.1	< 0.1	2.0
PS-117	Dark Green Paint	1	Room 9 - South Wall	Concrete	NT	NT	NT	< 0.1	3.7	2.1	< 0.1	< 0.1	5.8
PS-118	White Paint	1	Room 9 - South Wall	Concrete	NT	NT	NT	< 0.09	1.3	0.6	< 0.09	< 0.09	1.9
PS-119	White Paint	3	East Hallway, Ceiling	Concrete	NT	NT	NT	< 0.1	< 0.1	11.1	< 0.1	< 0.1	11.1
PS-120	White Paint	3	East Hallway, Ceiling	Concrete	NT	NT	NT	< 0.1	< 0.1	14.5	< 0.1	< 0.1	14.5
PS-121	White Paint	3	East Hallway, Ceiling	Concrete	NT	NT	NT	< 0.1	< 0.1	9.7	< 0.1	< 0.1	9.7
PS-122	White Paint	4	Mezzanine Room - West Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	5.8	< 0.1	< 0.1	5.8
PS-123	Green Paint	4	Mezzanine Room - West Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	3.3	< 0.1	< 0.1	3.3
PS-124	White Paint	4	Mezzanine Room - West Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	3.4	< 0.1	< 0.1	3.4
PS-125	Dark Green Paint	4	Mezzanine Room - West Wall	Concrete	NT	NT	NT	0.2	< 0.1	6.9	< 0.1	< 0.1	7.1
PS-126	Dark Green Paint	1	Room 9 - Locker Room & Toilet	Concrete	NT	NT	NT	< 0.1	2.9	1.5	< 0.1	< 0.1	4.4
PS-127	Dark Green Paint	1	Room 9 - Locker Room & Toilet	Concrete	NT	NT	NT	< 0.1	3.5	2.0	< 0.1	< 0.1	5.5
PS-128	Dark Green Paint	1	Room 9 - Locker Room & Toilet	Concrete	NT	NT	NT	< 0.1	2.9	1.3	< 0.1	< 0.1	4.2
PS-129	Dark Green Paint	1	Room 9 - Locker Room & Toilet	Concrete	NT	NT	NT	< 0.1	3.9	1.6	< 0.1	< 0.1	5.5
PS-130	Light Green Paint	1	Front Entry, Lower Wall	Concrete	NT	NT	NT	< 0.1	6.6	10.1	< 0.1	< 0.1	16.7
PS-131	White Paint	3	Ceiling - South End of East Hallway	Steel	NT	NT	NT	< 0.5	6.8	10.9	< 0.1	< 0.1	17.7
PS-132	White Paint	3	Room D - Upper Wall	Brick	NT	NT	NT	< 0.1	0.4	0.6	< 0.1	< 0.1	1.0
PS-133	Dark Green Paint	3	Room D - Lower Wall	Brick	NT	NT	NT	< 0.1	2.2	2.2	< 0.1	< 0.1	4.4
PS-134	White Paint	2	Room B - Battery Box	Steel	NT	NT	NT	< 0.1	2.7	3.4	< 0.1	< 0.1	6.1
PS-135	Light Green Paint	2	Room B - Battery Box	Steel	NT	NT	NT	< 0.1	2.5	3.3	< 0.1	< 0.1	6.0
PS-136	White Paint	5	Mezzanine - Upper Wall	Brick	NT	NT	NT	< 0.1	2.2	3.4	< 0.1	< 0.1	5.6
PS-137	Light Green Paint	5	Mezzanine - Lower Wall	Brick	NT	NT	NT	< 0.1	2.1	2.4	< 0.1	< 0.1	4.5
PS-138	Light Green Paint	4	Stairwell Into 4th floor	Concrete	NT	NT	NT	< 0.1	3.3	10.0	< 0.1	< 0.1	13.3
PS-139	Dark Green Paint	4	Mezzanine Railing	Steel	14.2	7,200	53,200	< 0.1	6.0	10.3	< 0.1	< 0.1	16.3
PS-140	Dark Green Paint	4	Mezzanine Railing	Steel	NT	NT	NT	< 0.1	5.6	9.3	< 0.1	< 0.1	14.9
PS-141	Dark Green Paint	4	Mezzanine Railing	Steel	NT	NT	NT	< 0.1	5.4	7.5	< 0.1	< 0.1	12.9
PS-142	White Paint	1	Cable Vault - East Hallway, Upper Wall	Brick	NT	NT	NT	< 0.1	1.3	1	< 0.1	< 0.1	2.3
PS-143	Dark Green Paint	1	Cable Vault - East Hallway, Lower Wall	Brick	NT	NT	NT	< 0.1	2.3	1.8	< 0.1	< 0.1	4.1
Disposal Action Level					20	100	100						1
EPA Standard													1
RDEC													10
NT 4													

Notes:

Concentrations are presented in milligrams per kilogram (mg/kg).
 Bold indicates an exceedance of the applicable Disposal Action Level.

Both indicates an exceedance of the applicable Disposal Action Even.
 Red indicates an exceedance of the applicable Method 1 RDEC Objective.
 < indicates the analyte was not detected above the specified laboratory detection limit.
 NT indicates not tested for the specific analyte.

6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.

7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

			Table 4 - Paint Analytical	Results (Con	tinued)								
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-144	White Paint	1	Cable Vault - East Hallway, Upper Wall	Brick	NT	NT	NT	< 0.1	1.5	1.1	< 0.1	<0.1	2.6
PS-145	Dark Green Paint	1	Cable Vault - East Hallway, Mid Wall	Brick	NT	NT	NT	< 0.1	2.4	1.8	< 0.1	< 0.1	4.2
PS-146	Dark Green Paint	1	Cable Vault - East Hallway, Mid Wall	Concrete	NT	NT	NT	< 0.1	2.2	1.6	< 0.1	< 0.1	3.8
PS-147	White Paint	1	Cable Vault - East Hallway, Upper Wall	Brick	NT	NT	NT	< 0.1	0.6	0.3	< 0.1	< 0.1	0.9
PS-148	Dark Green Paint	1	Cable Vault - East Hallway, Lower Wall	Concrete	NT	NT	NT	< 0.1	1.8	1.3	< 0.1	< 0.1	3.1
PS-149	White Paint	1	Cable Vault - East Hallway, Mid Wall	Brick	NT	NT	NT	< 0.1	0.8	0.4	< 0.1	< 0.1	1.2
PS-150	Yellow Paint Underlain by Red and Green Paint	1	Cable Vault - Fire Extinguisher Marking	Brick	NT	NT	NT	< 0.1	10.7	3	< 0.1	< 0.1	13.7
PS-151	Dark Green Paint	1	Cable Vault - East Hallway, Upper Wall	Brick	NT	NT	NT	< 0.1	0.6	0.2	< 0.1	< 0.1	0.8
PS-152	White Paint	1	Cable Vault - East Hallway, Mid Wall	Brick	NT	NT	NT	< 0.1	1.2	0.4	< 0.1	< 0.1	1.6
PS-153	Dark Green Paint	1	Cable Vault - East Hallway, Mid Wall	Brick	NT	NT	NT	< 0.09	3.1	1.6	< 0.09	0.4	5.1
PS-154	Dark Green Paint	1	Cable Vault - East Hallway, Lower Wall	Brick	NT	NT	NT	< 0.1	2.7	1	< 0.1	< 0.1	3.7
PS-155	White Paint	1	Room 9 - Locker Room & Toilet, Upper Wall	Concrete	NT	NT	NT	< 0.1	1.7	0.5	< 0.1	< 0.1	2.2
PS-156	White Paint Underlain by Dark Green Paint	1	Room 9 - Locker Room & Toilet, Mid Wall	Concrete	NT	NT	NT	< 0.1	1.4	0.4	< 0.1	< 0.1	1.8
PS-157	Dark Green Paint underlain by Dark Green Paint	1	Room 9 - Locker Room & Toilet, Mid Wall	Concrete	NT	NT	NT	< 0.1	3.8	1.3	< 0.1	< 0.1	5.1
PS-158	Dark Green Paint underlain by Dark Green Paint	1	Room 9 - Locker Room & Toilet, Lower Wall	Concrete	NT	NT	NT	< 0.1	4.6	1.2	< 0.1	< 0.1	5.8
PS-159	White Underlain by Light Yellow Paint	1	Locker Room - Foyer, Upper Wall	Concrete	NT	NT	NT	< 0.1	3.6	8	< 0.1	< 0.1	11.6
PS-160	White Paint Underlaind by Dark Green Paint	1	Locker Room - Foyer, Mid Wall	Concrete	NT	NT	NT	< 0.1	2.9	8.1	< 0.1	< 0.1	11.0
PS-161	Light Green Paint Underlain by Dark Green Paint	1	Locker Room - Foyer, Mid Wall	Concrete	NT	NT	NT	< 0.1	2.9	7.6	< 0.1	< 0.1	10.5
PS-162	Light Green Paint Underlain by Dark Green Paint	1	Locker Room - Foyer, Lower Wall	Concrete	NT	NT	NT	< 0.09	2	4.6	< 0.09	< 0.09	6.6
PS-163	White Paint	2	Office 2 - South Wall, Upper Wall	Concrete	NT	NT	NT	< 0.09	1.2	< 0.09	1.2	< 0.09	2.4
PS-164	White Paint Underlain by Light Green Paint Underlain by Dark Green Paint	2	Office 2 - South Wall, Mid Wall	Concrete	NT	NT	NT	< 0.1	4.5	< 0.1	4.7	<0.1	9.2
PS-165	Light Green Paint Underlain by Brown Paint	2	Office 2 - South Wall, Mid Wall	Concrete	NT	NT	NT	< 0.1	2.3	< 0.1	2.7	< 0.1	5.0
PS-166	Light Green Paint Underlain by Brown Paint	2	Office 2 - South Wall, Lower Wall	Concrete	NT	NT	NT	< 0.1	2.2	< 0.1	2.8	< 0.1	5.0
PS-167	White Paint	2	Office 3 - West Wall, Lower Wall, and Upper Wall	Brick	NT	NT	NT	< 0.1	4.4	5.8	<0.6	<0.6	10.2
PS-168	White Paint Underlain by Green Paint underlain by Dark Green Paint	2	Office 3 - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	3.2	< 0.1	6.5	<0.1	9.7
PS-169	Light Green Paint Underlain by White Paint Underlain by Dark Green Paint	2	Office 3 - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	3.5	4.1	< 0.1	1.3	8.9
PS-170	Light Green Underlain by White Paint	2	Office 3 - West Wall, Lower Wall	Brick	NT	NT	NT	< 0.3	2.2	< 0.3	1.8	< 0.3	4.0
PS-171	White Paint	2	Room A: Reactor Room - North Wall, Upper Wall	Concrete	NT	NT	NT	< 0.1	1.7	< 0.1	0.9	< 0.1	2.6
Disposal Ac	tion Level				20	100	100						1
EPA Standa	rd												1
RDEC													10

1. Concentrations are presented in milligrams per kilogram (mg/kg).

2. Bold indicates an exceedance of the applicable Disposal Action Level.
 3. Red indicates an exceedance of the applicable Method 1 RDEC Objective.
 4. < indicates the analyte was not detected above the specified laboratory detection limit.

5. NT indicates not tested for the specific analyte.
 6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.
 7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.
 8. Method 1 Residential Direct Exposure Criteria (RDEC) Objective obtained from Section 1.9.2 of the Remediation Regulations derived in Section 3.1.

Table 4 - Paint Analytical Results (Contents Anoten and anoten and anoten and anoten and anoten and anoten and anoten an													
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-172	White Paint	2	Room A: Reactor Room - North Wall, Mid Wall	Concrete	NT	NT	NT	< 0.1	2.9	< 0.1	1.6	< 0.1	4.5
PS-173	Light Green Paint	2	Room A: Reactor Room - North Wall, Mid Wall	Concrete	NT	NT	NT	< 0.1	1.7	1.4	< 0.1	1.7	4.8
PS-174	Light Green Paint	2	Room A: Reactor Room - North Wall, Lower Wall	Concrete	NT	NT	NT	< 0.1	2.3	2.1	< 0.1	2.4	6.8
PS-175	Orange Paint	2	Room A: Reactor Room - Cabinet	Composite	NT	NT	NT	< 0.1	7.8	6.6	< 0.1	< 0.1	14.3
PS-176	Gray Paint	2	Room A: Reactor Room - Cabinet	Composite	NT	NT	NT	< 0.1	3.2	< 0.1	2.6	< 0.1	5.8
PS-177	Light Green Paint	2	Room B: Main Switchboard Room - West Wall, Lower Wall	Brick	NT	NT	NT	< 0.1	2.7	5.7	< 0.1	2.8	11.2
PS-178	Light Green Paint	2	Room B: Main Switchboard Room - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.09	2.8	7.9	< 0.09	2.4	13.1
PS-179	White Paint Underlain by Dark Green Paint	2	Room B: Main Switchboard Room - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	2.5	8.1	< 0.1	1.9	12.5
PS-180	White Paint Underlain by Dark Green Paint	2	Room B: Main Switchboard Room - West Wall, Upper Wall	Brick	NT	NT	NT	< 0.1	2.4	< 0.1	5.4	< 0.1	7.8
PS-181	Brown Paint	2	Room B: Main Switchboard Room - East Wall, Mid Wall	Metal	NT	NT	NT	< 0.1	3.8	< 0.1	3.7	< 0.1	7.5
PS-182	Brown Paint	2	Room B: Main Switchboard Room - East Wall, Mid Wall	Metal	NT	NT	NT	< 0.09	2	< 0.09	3.2	< 0.09	5.2
PS-183	White Paint	3	Room C: Lower OCB Potential Transformer Room - East Wall, Upper Wall	Brick	NT	NT	NT	<0.1	1.4	2.7	< 0.1	<0.1	4.1
PS-184	White Paint	3	Room C: Lower OCB Potential Transformer Room - East Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	0.9	1.5	< 0.1	< 0.1	2.4
PS-185	Dark Green Paint	3	Room C: Lower OCB Potential Transformer Room - East Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	3.4	5.3	< 0.1	< 0.1	8.7
PS-186	Dark Green Paint	3	Room C: Lower OCB Potential Transformer Room - East Wall, Lower Wall	Brick	NT	NT	NT	< 0.1	3.2	5.5	< 0.1	<0.1	8.7
PS-187	White Paint	3	Room D: Lower OCB Room - North Wall, Lower Wall	Brick	NT	NT	NT	< 0.1	5.2	8.9	< 0.1	< 0.1	14.1
PS-188	White Paint	3	Room D: Lower OCB Room - North Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	5.4	8.4	< 0.1	< 0.1	13.8
PS-189	Dark Green Paint	3	Room D: Lower OCB Room - North Wall, Mid Wall	Brick	NT	NT	NT	< 0.09	2.9	10	< 0.09	< 0.09	12.9
PS-190	Dark Green Paint	3	Room D: Lower OCB Room - North Wall, Upper Wall	Brick	NT	NT	NT	< 0.1	2.5	9.2	< 0.1	< 0.1	11.7
PS-191	White Paint	3	Room D: Lower OCB Room - West Wall, Upper Wall	Brick	NT	NT	NT	< 0.09	1.1	2	< 0.09	< 0.09	3.1
PS-192	White Paint	3	Room D: Lower OCB Room - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	1.4	2.2	< 0.1	< 0.1	3.6
PS-193	Dark Green Paint	3	Room D: Lower OCB Room - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	2.7	3.8	< 0.1	< 0.1	6.5
PS-194	Dark Green Paint	3	Room D: Lower OCB Room - West Wall, Lower Wall	Brick	NT	NT	NT	< 0.2	3.6	5.7	< 0.2	< 0.2	9.3
PS-195	White Paint	4	Battery Room - West Wall, Lower Wall	Metal	NT	NT	NT	< 0.1	0.3	0.3	< 0.1	0.3	0.9
PS-196	White Paint	4	Battery Room - West Wall, Mid Wall	Metal	NT	NT	NT	< 0.1	0.4	0.6	< 0.1	1.6	2.6
PS-197	Light Green Paint	4	Battery Room - West Wall, Mid Wall	Metal	NT	NT	NT	< 0.09	0.6	0.8	< 0.09	< 0.09	1.4
PS-198	Light Green Paint	4	Battery Room - West Wall, Upper Wall	Metal	NT	NT	NT	< 0.1	1.1	1.1	< 0.1	< 0.1	2.2
Disposal Action	Level				20	100	100						1
EPA Standard													1
RDEC													10

1. Concentrations are presented in milligrams per kilogram (mg/kg).

2. Bold indicates an exceedance of the applicable Disposal Action Level.

3. Red indicates an exceedance of the applicable Method 1 RDEC Objective.

4. < indicates the analyte was not detected above the specified laboratory detection limit.

5. NT indicates not tested for the specific analyte.6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

			Table 4 - Paint Analytical Re	esults (Cont	tinued)								
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-199	White Paint	4	Room F: Main Bus Room - West Wall, North Wall, and Upper Wall	Brick	NT	NT	NT	< 0.1	2	2.6	< 0.1	<0.1	4.6
PS-200	White Paint	4	Room F: Main Bus Room - West Wall, North Wall, and Mid Wall	Brick	NT	NT	NT	< 0.09	2.5	3.5	<0.1	<0.1	6.0
PS-201	Dark Green Paint	4	Room F: Main Bus Room - West Wall, North Wall, and Mid Wall	Brick	NT	NT	NT	< 0.1	3.4	2.8	<0.1	<0.1	6.2
PS-202	Dark Green Paint	4	Room F: Main Bus Room - West Wall, North Wall, and Lower Wall	Brick	NT	NT	NT	<0.1	2.1	2	< 0.1	<0.1	4.1
PS-203	Dark Green Paint	4	Room E: Potential Transformer Upper - West Wall, Lower Wall	Brick	NT	NT	NT	< 0.09	1.2	0.8	< 0.09	<0.09	2.0
PS-204	Dark Green Paint	4	Room E: Potential Transformer Upper - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.09	1.4	0.7	<0.9	<0.9	2.1
PS-205	White Paint Underlain by Yellow Paint	4	Room E: Potential Transformer Upper - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	1.2	0.7	< 0.1	< 0.1	1.1
PS-206	White Paint Underlain by Yellow Paint	4	Room E: Potential Transformer Upper - West Wall, Upper Wall	Brick	NT	NT	NT	< 0.1	0.9	0.3	< 0.1	<0.1	1.2
PS-207	White Paint	5	Room G: Upper Breaker Floor - West Wall, Upper Wall	Brick	NT	NT	NT	< 0.09	0.4	0.9	< 0.09	< 0.09	1.3
PS-208	White Paint	5	Room G: Upper Breaker Floor - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	0.5	1.1	< 0.1	< 0.1	1.6
PS-209	Dark Green Paint	5	Room G: Upper Breaker Floor - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	1.3	1.9	< 0.1	< 0.1	3.2
PS-210	Dark Green Paint	5	Room G: Upper Breaker Floor - West Wall, Lower Wall	Brick	NT	NT	NT	< 0.1	0.5	0.8	< 0.1	< 0.1	1.3
PS-211	White Paint	5	Room G: Upper Breaker Floor - West Wall, Upper Wall	Brick	NT	NT	NT	< 0.09	0.4	0.9	< 0.09	< 0.09	1.3
PS-212	White Paint	5	Room G: Upper Breaker Floor - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.09	0.7	1.3	< 0.09	< 0.09	2.0
PS-213	Dark Green Paint	5	Room G: Upper Breaker Floor - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	1.6	2.4	< 0.1	< 0.1	4.0
PS-214	Dark Green Paint	5	Room G: Upper Breaker Floor - West Wall, Lower Wall	Brick	NT	NT	NT	< 0.1	1.5	2	< 0.1	< 0.1	3.5
PS-215	Dark Green Paint	5	Lighting Arrestor Room - East Wall, Lower Wall	Concrete	NT	NT	NT	< 0.1	2	2.7	< 0.1	< 0.1	4.7
PS-216	Dark Green Paint	5	Lighting Arrestor Room - North Wall, Mid Wall	Concrete	NT	NT	NT	< 0.1	0.9	1.2	< 0.1	< 0.1	2.1
PS-217	White Paint	5	Lighting Arrestor Room - North Wall, Mid Wall	Concrete	NT	NT	NT	< 0.1	0.2	0.2	< 0.1	< 0.1	0.4
PS-218	White Paint	5	Lighting Arrestor Room - North Wall, Upper Wall	Concrete	NT	NT	NT	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.2
PS-219	Dark Green Paint	5	Lighting Arrestor Room - West Wall, Lower Wall	Metal	NT	NT	NT	< 0.09	1	1	< 0.09	< 0.9	2.0
PS-220	Dark Green Paint	5	Lighting Arrestor Room - West Wall, Mid Wall	Metal	NT	NT	NT	< 0.1	1.1	1.7	< 0.1	< 0.1	2.8
PS-221	White Paint	5	Lighting Arrestor Room - West Wall, Mid Wall	Brick	NT	NT	NT	< 0.1	0.9	1	< 0.1	< 0.1	1.9
PS-222	White Paint	5	Lighting Arrestor Room - West Wall, Upper Wall	Brick	NT	NT	NT	< 0.1	1.1	< 0.1	1.2	< 0.1	2.3
PS-223	Gray Paint Underlain by White Paint Underlain by Green Paint	1	Turbine Room - Concrete Structure	Concrete	NT	NT	NT	< 0.1	1.2	0.9	< 0.1	<0.1	2.1
Disposal Actie	on Level				20	100	100						1
EPA Standard	1												1
RDEC													10
Notes:													

Concentrations are presented in milligrams per kilogram (mg/kg).
 Bold indicates an exceedance of the applicable Disposal Action Level.
 Red indicates an exceedance of the applicable Method 1 RDEC Objective.
 < indicates the analyte was not detected above the specified laboratory detection limit.

5. NT indicates not tested for the specific analyte.

6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.

7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.
 8. Method 1 Residential Direct Exposure Criteria (RDEC) Objective obtained from Section 1.9.2 of the Remediation Regulations derived in Section 3.1.

			Table 4 - Paint Analytic	al Results (Con	tinued)								
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-224	Gray Paint Underlain by White Paint Underlain by Green Paint	1	Turbine Room - Concrete Structure	Concrete	NT	NT	NT	< 0.1	1.3	0.6	<0.1	<0.1	1.9
PS-225	Gray Paint Underlain by White Paint Underlain by Green Paint	1	Turbine Room - Concrete Structure	Concrete	NT	NT	NT	< 0.1	1.2	1	< 0.1	<0.1	2.2
PS-226	Light Green Paint	1	Front Entry, West Wall, Lower Wall	Concrete	NT	NT	NT	< 0.09	2.9	5.8	< 0.09	< 0.1	8.7
PS-227	Light Green Paint Underlain by White Paint Underlain by Green Paint	3	East Hallway - North Wall, Mid Wall	Brick	NT	NT	NT	< 0.09	12.2	27.8	<0.09	<0.1	40
PS-228	Light Green Underlain by Dark Green	3	East Hallway - North Wall, Lower Wall	Brick	NT	NT	NT	< 0.1	16.8	34.9	< 0.1	< 0.1	51.7
PS-229	Dark Metallic Gray Paint	1	Room 1, North Wall	Concrete	NT	NT	NT	< 0.1	2.2	2.8	< 0.1	< 0.1	5
PS-230	Light Metallic Gray Paint	1	Room 1, North Wall	Concrete	NT	NT	NT	< 0.1	1.6	1.8	< 0.1	< 0.1	3.4
PS-231	Metallic Gray Paint	1	Room 3, South Wall	Concrete	NT	NT	NT	< 0.1	1.3	0.8	< 0.1	< 0.1	2.1
PS-232	Metallic Gray Paint	1	Room 3, South Wall	Concrete	NT	NT	NT	< 0.1	0.9	0.5	< 0.1	< 0.1	1.4
PS-233	Metallic Gray Paint	1	Room 4, South Wall	Concrete	NT	NT	NT	< 0.1	0.6	0.5	< 0.1	< 0.1	1.1
PS-234	Metallic Gray Paint	1	Room 4, South Wall	Concrete	NT	NT	NT	< 0.1	0.5	0.2	< 0.1	< 0.1	0.7
PS-235	White Paint	1	Room 5, South Wall	Concrete	NT	NT	NT	< 0.1	0.6	< 0.1	0.3	< 0.1	0.9
PS-236	Dark Green Paint	1	Room 5, South Wall	Concrete	NT	NT	NT	< 0.1	1.0	0.8	< 0.1	< 0.1	1.8
PS-237	White Paint	1	Room 6, North Wall	Concrete	NT	NT	NT	< 0.1	0.9	< 0.1	0.7	< 0.1	1.6
PS-238	Dark Green Paint	1	Room 6, North Wall	Concrete	NT	NT	NT	< 0.1	2.0	1.7	< 0.1	< 0.1	3.7
PS-239	White Paint	1	Room 8, South Wall	Concrete	NT	NT	NT	< 0.1	0.8	< 0.1	0.8	< 0.1	1.6
PS-240	Dark Green Paint	1	Room 8, South Wall	Concrete	NT	NT	NT	< 0.1	1.5	1.4	< 0.1	< 0.1	1.9
PS-241	White Paint	2	Store Room	Concrete	NT	NT	NT	< 0.1	0.2	< 0.1	0.1	< 0.1	0.3
PS-242	White Paint	2	Reactor Room, West Wall	Brick	NT	NT	NT	< 0.5	4.6	2.7	< 0.5	< 0.5	7.3
PS-243	White Paint	2	Reactor Room, West Wall	Brick	NT	NT	NT	< 0.1	3.6	2.3	< 0.1	< 0.1	5.9
PS-244	Dark Green Brick	2	Reactor Room, West Wall	Brick	NT	NT	NT	< 0.1	2.4	1.6	< 0.1	0.7	4.7
PS-245	Dark Green Brick	2	Reactor Room, West Wall	Brick	NT	NT	NT	< 0.1	4.1	3.1	< 0.1	1.6	9.0
PS-246	White Paint	2	Office 1	Concrete	NT	NT	NT	< 0.09	1.7	< 0.09	1.8	< 0.09	3.5
PS-247	Black Paint underlain by Green Paint underlain by White Paint	2	Store Room	Concrete	NT	NT	NT	2.9	< 0.1	< 0.1	3.5	<0.1	6.4
PS-248	White Paint	2	Office 1	Concrete	NT	NT	NT	< 0.1	1.9	< 0.1	2.8	< 0.1	4.7
PS-249	Green Paint	2	Store Room	Metal	NT	NT	NT	< 0.09	2.6	< 0.09	3.2	< 0.09	5.8
PS-250	White Paint	3	Wall B	Concrete	NT	NT	NT	< 0.1	< 0.1	24.1	< 0.1	< 0.1	24.1
PS-251	White Paint	3	Wall B	Concrete	NT	NT	NT	< 0.1	< 0.1	28.6	< 0.1	< 0.1	28.6
Disposal Ac	tion Level				20	100	100						1
EPA Standa	rd												1
RDEC													10
Notes:													

Notes:
1. Concentrations are presented in milligrams per kilogram (mg/kg).
2. Bold indicates an exceedance of the applicable Disposal Action Level.
3. Red indicates an exceedance of the applicable Method 1 RDEC Objective.
4. < indicates the analyte was not detected above the specified laboratory detection limit.
5. NT indicates not tested for the specific analyte.
6. Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.
7. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.
8. Method 1 Residential Direct Exposure Criteria (RDEC) Objective obtained from Section 1.9.2 of the Remediation Regulations derived in Section 3.1.

			Table 4 - Paint Analytical I	Results (Con	tinued)								
Sample ID	Description	Floor	Location	Substrate	Total Cadmium	Total Chromium	Total Lead	Aroclor- 1242	Aroclor- 1254	Aroclor- 1260	Aroclor- 1262	Aroclor- 1268	Total PCBs
PS-252	White Paint	2	Office 1 Ceiling	Concrete	NT	NT	NT	<9.9	282	207	<9.9	<9.9	489
PS-253	Gray Paint	3	Stairwell Into 4th floor	Brick	NT	NT	NT	< 0.1	< 0.1	27	< 0.1	< 0.1	27
PS-254	White Paint	1	Turbine Room - Eastern portion of back southern wall	Brick	NT	NT	NT	< 0.1	3.8	7.8	< 0.1	< 0.1	11.6
PS-255	White Paint	1	Turbine Room - Eastern portion of back southern wall	Brick	NT	NT	NT	< 0.09	2.1	6.7	< 0.09	< 0.09	8.8
PS-256	White Paint	1	Turbine Room - Eastern portion of back southern wall	Metal	NT	NT	NT	< 0.1	7.3	10.9	< 0.1	< 0.1	18.2
Disposal Action Level					20	100	100						1
EPA Standard													1
RDEC													10
Notes:	1411 (14 / A)												

Concentrations are presented in milligrams per kilogram (mg/kg).
 Bold indicates an exceedance of the applicable Disposal Action Level.

Bold indicates an exceedance of the applicable Disposal Action Level.
 Red indicates an exceedance of the applicable Method 1 RDEC Objective.
 < indicates the analyte was not detected above the specified laboratory detection limit.
 NT indicates not tested for the specific analyte.
 Italics indicates the specified laboratory detection limit exceeds the EPA action level for unrestricted future Site use.
 EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.
 Method 1 Residential Direct Exposure Criteria (RDEC) Objective obtained from Section 1.9.2 of the Remediation Regulations derived in Section 3.1.

Table 5 - Bulk Material Analysis Date Aroclog Aroclog													
Sample ID	This - Buscription This - Buscription Subscription Subscription		Asbestos Content										
012	Roof	Roof	Grey Caulk	10/30/2018	11/6/2018	79	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	<0.2	Negative
013	Roof	Roof	Black Caulk	10/30/2018	11/6/2018	79	<0.8	< 0.8	< 0.8	<0.8	< 0.8	< 0.8	Negative
014	Roof	Roof	Roofing Material	10/30/2018	11/6/2018	24	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	Negative
016	Roof	Roof	Tar Paper	10/30/2018	11/6/2018	129	<1.1	<1.1	<1.1	<1.1	1.2	1.2	Negative
019	Roof	Roof	Silver Roof Coating	10/30/2018	11/6/2018	59	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	Negative
022	Northern Exterior - East Doorway	Exterior	White Caulk*	10/30/2018	11/6/2018	66	< 0.5	1.2	< 0.5	<0.5	< 0.5	1.2	Negative
022A	Northern Exterior - East Doorway	Exterior	White Caulk*	9/1/2021	9/7/2021	63	< 0.2	1.0	< 0.2	0.5	< 0.2	1.5	NT
022B	Northern Exterior - East Doorway	Exterior	White Caulk*	9/1/2021	9/7/2021	43	< 0.2	0.7	< 0.2	0.4	< 0.2	0.9	NT
023	Northern Exterior - East Doorway	Exterior	Window Glazing	10/30/2018	11/6/2018	56	< 0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	2% Chrysotile
024	Northern Exterior - West Doorway	Exterior	White Caulk	10/30/2018	11/6/2018	20	< 0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	3% Chrysotile
028	Northern Exterior - Expansion Joint	Exterior	White Caulk	10/30/2018	11/6/2018	49	< 0.2	1.3	0.9	<0.2	< 0.2	2.2	Trace (< 1% Chrysolite)
028A	Northern Exterior - Expansion Joint	Exterior	White Caulk	9/1/2021	9/7/2021	88	<0.2	0.5	<0.2	<0.2	<0.2	0.5	NT
028B	Northern Exterior - Expansion Joint	Exterior	White Caulk	9/1/2021	9/7/2021	84	< 0.2	0.6	< 0.2	<0.2	< 0.2	0.6	NT
029	Southern Exterior - Expansion Joint	Exterior	Black Caulk	10/30/2018	11/6/2018	67	< 0.2	0.3	< 0.2	<0.2	< 0.2	0.3	8% Chrysotile
1009	Cable Vault	1	Grey Caulk*	10/1/2018	10/10/2018	59	0.4	1.9	< 0.2	<0.2	< 0.2	2.3	8% Chrysotile
1009A	Cable Vault	1	Grey Caulk*	9/1/2021	9/7/2021	87	< 0.2	3.7	< 0.2	0.4	< 0.2	4.1	NT
1010	Cable Vault	1	Pothead Gasket	10/1/2018	10/10/2018	83	<3.1	13.9	<3.1	<3.1	<3.1	13.9	Negative
1010A	Cable Vault	1	Pothead Gasket	9/1/2021	9/7/2021	96	< 0.8	10	2.6	< 0.8	< 0.8	12.6	NT
1010B	Cable Vault	1	Pothead Gasket	9/1/2021	9/7/2021	85	<0.6	11.1	3	<0.6	<0.6	14.1	NT
1013	Cable Vault	1	Conduit Putty	10/1/2018	10/10/2018	73	< 0.3	2.2	< 0.3	< 0.3	< 0.3	2.2	10% Chrysotile
1013A	Cable Vault	1	Conduit Putty	9/1/2021	9/7/2021	71	< 0.2	1.3	< 0.2	<0.2	< 0.2	1.3	NT
1024	Locker Room	1	Conduit Putty	10/1/2018	10/10/2018	46	< 0.2	5.9	< 0.2	<0.2	< 0.2	5.9	12% Chrysotile
1024A	Locker Room	1	Conduit Putty	9/1/2021	9/7/2021	52	< 0.2	26.8	< 0.2	<0.2	< 0.2	26.8	NT
1026	Turbine Room	1	Stair Tread	10/1/2018	10/10/2018	104	< 0.1	< 0.1	5.1	<0.1	< 0.1	5.1	3% Chrysotile
1026A	Turbine Room	1	Stair Tread	9/1/2021	9/13/2021	64	< 0.2	2.1	5.2	<0.2	< 0.2	7.3	NT
1026B	Turbine Room	1	Stair Tread	9/1/2021	9/11/2021	65	< 0.3	2.9	6.9	<0.3	< 0.3	9.8	NT
2001	Office 1	2	Table Covering	10/1/2018	10/11/2018	463	<0.1	14.4	5.5	<0.1	< 0.1	19.9	Negative
2003A	Office 1	2	Rubber Floor Mat (Type 1)	10/1/2018	10/12/2018	SD	<1.9	<1.9	42.3	<1.9	<1.9	42.3	Negative
2003B	Office 1	2	Rubber Floor Mat (Type 1)	10/1/2018	10/17/2018	71	3.0	9.4	18.9	<0.2	< 0.2	31.3	Negative
Disposal Act	ion Level												Asbestos Present
EPA Standar	d											1	
RDEC												10	

. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

2. Analytical results are reported in milligrams per kilogram (mg/kg).

. < denotes analyte was not detected above the laboratory detection limit.

. Bold indicates an exceedance of the applicable Disposal Action Level.

. * symbol denotes paint was observed on the material and was removed to the extent feasible before laboratory submittal.

. **Red** indicates an exceedance of the applicable Method 1 RDEC Objective

. SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

B. Disposal Action Level obtained from National Grid EP No. 17.

. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

	Table 5 - Bulk Material Analytical Results (Continued)												
Sample ID	Location	Floor	Description	Sample Date	Analysis Date	Surrogate Recovery Percentage	Aroclor 1242	Aroclor 1254	Aroclor 1260	Araclor 1262	Aroclor 1268	Total PCBs	Asbestos Content
2003C	Office 1	2	Rubber Floor Mat (Type 1)	10/30/2018	11/7/2018	67	< 0.1	6.1	10.3	<0.1	< 0.1	16.4	Negative
2004	Bathroom	2	Cove Base Molding	10/1/2018	10/11/2018	45	< 0.1	1.1	< 0.1	< 0.1	< 0.1	1.1	Negative
2004A	Bathroom	2	Cove Base Molding	9/1/2021	9/11/2021	65	< 0.3	3.3	0.6	< 0.3	< 0.3	3.9	NT
2004B	Bathroom	2	Cove Base Molding	9/1/2021	9/11/2021	55	2.0	2.2	0.8	<0.2	< 0.2	5.0	NT
2011	Office 2	2	Window Glazing*	10/1/2018	10/11/2018	76	< 0.2	1.0	1.2	<0.2	0.3	2.5	Negative
2011A	Office 2	3	Window Glazing*	9/1/2021	9/7/2021	71	< 0.2	0.8	< 0.2	0.4	< 0.2	1.2	NT
2011B	Office 2	4	Window Glazing*	9/1/2021	9/7/2021	103	< 0.2	1.9	< 0.2	1.1	< 0.2	3	NT
2012	Office 2	2	Rubber Floor Mat (Type 2)	10/1/2018	10/12/2018	31	< 0.1	0.8	0.7	<0.1	< 0.1	1.5	Negative
2012B	Office 2	2	Rubber Floor Mat (Type 2)	10/30/2018	11/7/2018	60	0.7	1.1	0.9	<0.1	0.2	2.9	Negative
2014	Office 3	2	Rubber Floor Mat (Type 2)	10/1/2018	10/11/2018	52	0.9	1.3	1.2	<0.1	< 0.1	3.4	Negative
2015	Room B: Main Switchboard Room	2	Table Covering	10/1/2018	10/11/2018	57	< 0.1	3.5	2.9	<0.1	< 0.1	6.4	Negative
2016	Room B: Main Switchboard Room	2	Rubber Floor Mat (Type 3)	10/1/2018	10/11/2018	77	< 0.1	6.1	7.1	<0.1	< 0.1	13.2	Negative
2016B	Room B: Main Switchboard Room	2	Rubber Floor Mat (Type 3)	10/30/2018	11/6/2018	54	0.9	3.6	3.1	<0.1	< 0.1	7.6	Negative
2016C	Room B: Main Switchboard Room	2	Rubber Floor Mat (Type 3)	10/30/2018	11/7/2018	66	7.8	8.4	5.6	< 0.1	1.0	22.8	Negative
2018	Room B: Main Switchboard Room: Office	2	Cove Base Molding	10/1/2018	10/11/2018	81	2.3	3.7	1.6	<0.1	< 0.1	7.6	Negative
2018A	Room B: Main Switchboard Room: Office	2	Cove Base Molding	9/1/2021	9/7/2021	58	4.2	< 0.2	< 0.2	1.9	< 0.2	6.1	NT
2018B	Room B: Main Switchboard Room: Office	2	Cove Base Molding	9/1/2021	9/7/2021	77	< 0.2	5.5	< 0.2	1.7	< 0.2	7.2	NT
2035	Room B: Main Switchboard Room	2	Window Glazing	10/2/2018	10/11/2018	49	1.0	5.7	3.1	<0.2	0.7	10.5	Negative
2035B	Room B: Main Switchboard Room	2	Window Glazing	9/1/2021	9/11/2021	62	< 0.2	3.8	< 0.2	5.5	< 0.2	9.3	NT
3015	Third Floor Hallway	3	Window Glazing*	10/2/2018	10/11/2018	66	< 0.3	< 0.3	9.0	<0.3	< 0.3	9.0	Negative
4006	Battery Room	4	Window Glazing*	10/3/2018	10/11/2018	70	<1.8	5.6	3.7	<1.8	<1.8	9.3	Negative
5001	Fifth Floor - Mezzanine	5	Window Glazing*	10/3/2018	10/11/2018	74	< 0.2	1.5	0.9	<0.2	< 0.2	2.4	Negative
5009	Fifth Floor - Air Handler	5	Door Strip	10/31/2018	11/7/2018	129	< 0.3	< 0.3	0.7	< 0.3	0.7	1.4	Negative
5009A	Fifth Floor - Air Handler	5	Door Strip	9/1/2021	9/7/2021	971	< 0.3	< 0.3	9.8	< 0.3	6.0	15.8	NT
5009B	Fifth Floor - Air Handler	5	Door Strip	9/1/2021	9/7/2021	325	< 0.4	< 0.4	2.3	<0.4	2.4	4.7	NT
5010	Fifth Floor - Air Handler	5	Silver Coating	10/31/2018	11/6/2018	86	<7.1	<7.1	11.8	<7.1	<7.1	11.8	Negative
5010A	Fifth Floor - Air Handler	5	Silver Coating	9/1/2021	9/11/2021	74	<0.7	4.0	< 0.7	3.9	< 0.7	7.9	NT
5010B	Fifth Floor - Air Handler	5	Silver Coating	9/1/2021	9/11/2021	76	<0.7	4.1	< 0.7	2.9	< 0.7	7.0	NT
Disposal A	Action Level												Asbestos Present
EPA Stand	dard											1	
RDEC												10	
Notes:													

1. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.

2. Analytical results are reported in milligrams per kilogram (mg/kg).

3. < denotes analyte was not detected above the laboratory detection limit.

. Bold indicates an exceedance of the applicable Disposal Action Level.

. * symbol denotes paint was observed on the material and was removed to the extent feasible before laboratory submittal.

Red indicates an exceedance of the applicable Method 1 RDEC Objective

SD indicates surrogate recovery percentage diluted below laboratory quantification limit.

8. Disposal Action Level obtained from National Grid EP No. 17.

9. EPA action level for unrestricted future Site uses is derived in 40 CFR 761.61.

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		Table 6 - Wipe Sample Analytical R	lesults			
Sample ID	Location	Wipe Surface	Sample Date	Analysis Date	Surrogate Recovery Percentage	Total PCBs
WS-01-01	Turbine Room	Black Painted Staircase	1/3/2020	1/11/2020	94	< 0.5
WS-01-02	Hallway into Turbine Room	Light Green Paint on Concrete	10/21/2021	10/27/2021	90	<1.0
WS-01-03	Cable Vault	Interior of Air Handler	10/21/2021	10/27/2021	92	<1.0
WS-02-01	Switchboard Room	Unpainted Steel Conduit	9/26/2019	9/26/2019	78	< 0.5
WS-02-02	Switchboard Room	Brown Painted Office Enclosure	1/3/2020	1/11/2020	100	5.8
WS-02-03	Switchboard Room	White Paint on Battery Box	5/29/2020	6/9/2020	110	<1.0
WS-02-04	Switchboard Room	Light Green Paint on Battery Box	5/29/2020	6/9/2020	108	<1.0
WS-02-05	Reactor Room	Light Green Paint on Brick Wall	10/21/2021	10/27/2021	94	<1.0
WS-02-06	Switchboard Room	White Paint on Metal Panel	10/21/2021	10/27/2021	92	<1.0
WS-03-01	Third Floor Hallway	Unpainted Steel Conduit	9/26/2019	9/26/2019	84	< 0.5
WS-03-02	Third Floor Hallway	Unpainted Steel Conduit	9/26/2019	9/26/2019	80	< 0.5
WS-03-03	Room D: Lower OCB Room	White Painted Wall	5/29/2020	6/9/2020	107	<1.0
WS-03-04	Room D: Lower OCB Room	Dark Green Painted Wall	5/29/2020	6/9/2020	109	<1.0
WS-03-05	Behind Door to Room C	Light Green Paint on Brick Wall, Behind Duct	10/21/2021	10/27/2021	97	<1.0
WS-03-06	Stariwell to Room D	Light Green Paint on Brick Wall	10/21/2021	10/27/2021	95	<1.0
WS-04-01	Fourth Floor Mezzanine	Unpainted Transite Enclosure	1/3/2020	1/11/2020	103	1.4
WS-04-02	Fourth Floor Mezzanine Stairwell	White Paint on Brick	10/21/2021	10/27/2021	94	<1.0
WS-04-03	Potential Transformer Upper	Black Paint on Brick	10/21/2021	10/27/2021	92	<1.0
WS-04-04	Main Bus Room	Dark Green Paint on Wall, Behind Duct	10/21/2021	10/27/2021	93	<1.0
WS-05-01	Fifth Floor Mezzanine	Light Green Painted Wall	5/29/2020	6/9/2020	104	<1.0
WS-05-02	Fifth Floor Mezzanine	White Painted Wall	5/29/2020	6/9/2020	107	<1.0
WS-05-03	Lightning Arrestor Room	Interior of Air Handler	10/21/2021	10/27/2021	95	<1.0
WS-05-04	Lightning Arrestor Room	Interior of Air Handler	10/21/2021	10/27/2021	89	<1.0
WS-05-05	Upper Breaker Room	Dark Green Paint on Brick Wall, Behind Duct	10/21/2021	10/27/2021	82	<1.0
EPA Standard						10
Nataa						

Notes:
1. Surrogate data is based on recovery percentage of an added concentration of decachlorobiphenyl.
2. Analytical results are reported in µg/100 cm² wipe.
3. < denotes analyte was not detected above the laboratory detection limit.
4. Total PCBs are reported as concrentations of Aroclor 1260; no other aroclors were detected.

5. The applicable EPA decontamination standard is listed in 40 CFR 761.125(c)(4)(iv).

Sample Type	Sample Identification	Sample Date	Analysis Date	Surrogate Recovery Percentage	Total PCBs
Concrete Floor Characterization	ICS-01-16	10/1/2018	10/10/2018	46	< 0.1
Collocated Duplicate	DUP-01	10/1/2018	10/10/2018	57	<0.1
Concrete Floor Characterization	ICS-01-36	10/1/2018	10/9/2018	69	< 0.09
Collocated Duplicate	DUP-02	10/1/2018	10/10/2018	75	< 0.1
Concrete Floor Characterization	ICS-04-14	10/3/2018	10/15/2018	90	< 0.1
Collocated Duplicate	DUP-03	10/3/2018	10/10/2018	70	<0.1
Concrete Floor Characterization	ICS-01-28	10/1/2018	10/9/2018	50	0.2
Collocated Duplicate	DUP-04	10/1/2018	10/10/2018	57	0.3
Concrete Floor Characterization	ICS-02-02	10/2/2018	10/11/2018	69	< 0.1
Collocated Duplicate	DUP-05	10/2/2018	10/10/2018	41	0.5
Concrete Floor Characterization	ICS-03-09	10/2/2018	10/12/2018	85	0.2
Collocated Duplicate	DUP-06	10/2/2018	10/10/2018	76	0.3
Concrete Floor Characterization	ICS-01-52	10/31/2018	11/6/2018	87	0.1
Collocated Duplicate	DUP-07	10/31/2018	11/6/2018	84	0.1
Concrete Floor Characterization	ICS-03-25	2/28/2019	3/6/2019	87	1.4
Collocated Duplicate	DUP-08	2/28/2019	3/5/2019	71	0.7
Concrete Floor Characterization	ICS-01-63	9/27/2019	10/7/2019	77	0.3
Collocated Duplicate	DUP-09	9/27/2019	10/7/2019	71	0.2
Concrete Floor Characterization	ICS-03-27 (1-2)	1/3/2020	1/13/2020	84	< 0.1
Collocated Duplicate	DUP-10	1/3/2020	1/11/2020	80	<0.1
Concrete Floor Characterization	ICS-01-72	1/3/2020	1/10/2020	84	0.5
Collocated Duplicate	DUP-11	1/3/2020	1/11/2020	85	0.7
Concrete Floor Characterization	ICS-03-68	9/2/2020	9/10/2020	64	0.7
Collocated Duplicate	DUP-12	9/2/2020	9/9/2020	75	1.0
Concrete Floor Characterization	ICS-01-84	9/2/2020	9/9/2020	79	<0.1
Collocated Duplicate	DUP-13	9/2/2020	9/9/2020	79	< 0.09
Concrete Floor Characterization	ICS-01-93	4/27/2021	5/5/2021	78	< 0.1
Collocated Duplicate	DUP-14	4/27/2021	5/5/2021	95	< 0.1
Concrete Wall Characterization	CW-DUP-01	5/29/2020	6/10/2020	95	<0.1
Collocated Duplicate	CW-04-04	5/29/2020	6/10/2020	92	< 0.1
Concrete Floor Characterization	ICS-01-101	9/1/2021	9/7/2021	89	0.6
Collocated Duplicate	DUP-15	9/1/2021	9/7/2021	67	0.2
Paint Characterization	PS-71	2/28/2019	3/8/2019	N/A	51.0
Collocated Duplicate	DUP-01	2/28/2019	3/7/2019	124	59.3
Paint Characterization	PS-85	2/28/2019	3/6/2019	174	21.6
Collocated Duplicate	DUP-02	2/28/2019	3/5/2019	88	19.8
Paint Characterization	PS-113	9/27/2019	10/3/2019	969	51
Collocated Duplicate	DUP-03	9/27/2019	10/3/2019	969	5.7
1 Surrogate data is based on recovery pe	rcentage of an added con	centration of decachl	orobinhenvl	. ••	

Surrogate data is based on recovery precinage of an added concentration of decad
 Analytical results are reported in milligrams per kilograms (mg/kg).

3. < indicates the analyte was not detected above the specified laboratory detection limit.

4. N/A indicates surrogate recovery data not available.

Sample Type	Sample Identification	Sample Date	Analysis Date	Surrogate Recovery Percentage	Total PCBs
Paint Characterization	PS-134	5/29/2020	6/9/2020	89	6.1
Collocated Duplicate	DUP-04	5/29/2020	6/10/2020	66	5.0
Paint Characterization	PS-136	5/29/2020	6/9/2020	76	5.6
Collocated Duplicate	DUP-05	5/29/2020	6/10/2020	199	3.4
Paint Characterization	PS-137	5/29/2020	6/10/2020	262	4.5
Collocated Duplicate	DUP-06	5/29/2020	6/10/2020	70	5.2
Paint Characterization	PS-199	4/29/2021	5/5/2021	66	4.6
Collocated Duplicate	DUP-07	4/29/2021	5/4/2021	95	5.6
Paint Characterization	PS-253	9/2/2021	9/12/2021	69	27
Collocated Duplicate	DUP-07	9/2/2021	9/10/2021	71	26.1
Paint Characterization	PS-215	4/29/2021	5/5/2021	75	4.7
Collocated Duplicate	DUP-08	4/29/2021	5/4/2021	90	4
Paint Characterization	PS-230	9/1/2021	9/10/2021	80	3.4
Collocated Duplicate	DUP-08	9/1/2021	9/10/2021	63	3.8
Paint Characterization	PS-220	4/29/2021	5/6/2021	58	2.8
Collocated Duplicate	DUP-09	4/29/2021	5/4/2021	94	4.6
Paint Characterization	PS-224	4/29/2021	5/4/2021	48	1.9
Collocated Duplicate	DUP-10	4/29/2021	5/4/2021	59	2.3
Paint Characterization	PS-225	4/29/2021	5/4/2021	53	2.2
Collocated Duplicate	DUP-11	4/29/2021	5/4/2021	59	2.3
Brick Characterization	BR-03-10	9/2/2021	9/7/2021	87	0.5
Collocated Duplicate	BR-DUP-01	9/2/2021	9/7/2021	89	0.1

Table 7 - Oual	itv Assurance and	Ouality Contro	l Results	(Continued

Analytical results are reported in milligrams per kilograms (mg/kg).
 < indicates the analyte was not detected above the specified laboratory detection limit.
 N/A indicates surrogate recovery data not available.

RESPONSIBLE PARTY CERTIFICATION

Responsible Party Certification

I, William R. Howard, as an authorized representative of The Narragansett Electric Company (TNEC), the party conducting the Self-Implementing Cleanup at the Pawtucket 1 No. 107 Substation, located at 6 Thornton Street in Pawtucket, Rhode Island, hereby certify that: 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 TNEC, 280 Melrose Street in Providence, Rhode Island 02907, and are available for EPA inspection.

Signed:	ASA	
-		
Title:	Principal Environmental Scientist	

Date:

4/14/2022

SITE PHOTOGRAPHS



Photo 1

Overview of the east side of the Control House on September 9, 2018, as viewed from the southeast.



Photo 2 Overview of the south side of the Control House on September 9, 2018, as viewed from the south.



Photo 3

Overview of the west side of the Control House on September 9, 2018, as viewed from the southwest.



Photo 4

Overview of the Turbine Room on September 9, 2018, as viewed from the southeast. Note the trap rock covering the floor.

	7		SITE PHOTOGRAPHS		
Offices Th	ONEC Engineers & Scien ROUGHOUT NEW ENGLAND (8	<u>O</u> tists 00) 548-3355	Pawtucket 1 No. 107 Substation Control House 6 Thornton Street		
PHOTOGRAPHER	DATE	CHECKED	PAWTUCKET, RHODE ISLAND		
KML	AS NOTED	MAZ	CONECO PROJECT NO. 5675.F.101		



Photo 5 Overview of the turbine room on September 9, 2018, as viewed from the northwest.



Photo 6

Concrete foundations associated with former turbines on September 2, 2021, as viewed from the southwest.



Photo 7

Overview of Room No. 2, located adjacent to the Turbine Room on September 9, 2018, as viewed from the east.



Photo 8

Overview of the second floor Office 1 room, where PCB Remediation Waste has been identified in the ceiling paint and concrete as well as the rubber floor matting, on April 29, 2021, as viewed from the northwest.

			SITE PHOTOGRAPHS		
OFFICES TH	ONEC Engineers & Scien ROUGHOUT NEW ENGLAND (8	00) 548-3355	PAWTUCKET 1 No. 107 SUBSTATION Control House 6 Thornton Street		
PHOTOGRAPHER	DATE	CHECKED	PAWTUCKET, RHODE ISLAND		
KML	AS NOTED	MAZ	CONECO PROJECT NO. 5675.F.101		



Photo 9

A view of paint and concrete ceiling samples collected from the second floor Office 1 on September 2, 2021.



Photo 10

Overview of the northern portion of the main switchboard room located on the second floor on September 9, 2018, as viewed from the southeast.



Photo 11

Overview of the third floor East Hallway, comprising PCB Remediation Waste, on April 29, 2021, as viewed from the north.



Photo 12

Overview of the mezzanine located on the fourth floor on September 9, 2018, as viewed from the north.

			SITE PHOTOGRAPHS
OFFICES THI	ONEC Engineers & Scien ROUGHOUT NEW ENGLAND (8)	00) 548-3355	Pawtucket 1 No. 107 Substation Control House 6 Thornton Street
PHOTOGRAPHER	DATE	CHECKED	PAWTUCKET, RHODE ISLAND
KML	AS NOTED	MAZ	CONECO PROJECT NO. 5675.F.101
LABORATORY ANALYTICAL DOCUMENTATION



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810174

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:45 pm, Oct 12, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810174

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810174-01	ICS-01-01	Soil	8082A
1810174-02	ICS-01-02	Soil	8082A
1810174-03	ICS-01-03	Soil	8082A
1810174-04	ICS-01-04	Soil	8082A
1810174-05	ICS-01-05	Soil	8082A
1810174-06	ICS-01-06	Soil	8082A
1810174-07	ICS-01-07	Soil	8082A
1810174-08	ICS-01-08	Soil	8082A
1810174-09	ICS-01-09	Soil	8082A
1810174-10	ICS-01-10	Soil	8082A
1810174-11	ICS-01-11	Soil	8082A
1810174-12	ICS-01-12	Soil	8082A
1810174-13	ICS-01-13	Soil	8082A
1810174-14	ICS-01-14	Soil	8082A
1810174-15	ICS-01-15	Soil	8082A
1810174-16	ICS-01-16	Soil	8082A
1810174-17	ICS-01-17	Soil	8082A
1810174-18	ICS-01-18	Soil	8082A
1810174-19	ICS-01-19	Soil	8082A
1810174-20	ICS-01-20	Soil	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810174

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810174

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-01 Date Sampled: 10/01/18 09:00 Percent Solids: 97 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-01 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

<u>Analyte</u>	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Sequer</u>	ice Batch
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 19:08	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		56 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		54 %		30-150			
Surrogate: Tetrachloro-m-xylene		76 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-02 Date Sampled: 10/01/18 09:05 Percent Solids: 97 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-02 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1260	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 19:27		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-03 Date Sampled: 10/01/18 09:10 Percent Solids: 97 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-03 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1260	0.1 (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 22:19		CJ80504
Aroclor 1268	0.2 (0.1)		8082A		1	10/08/18 22:19		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		52 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-04 Date Sampled: 10/01/18 09:15 Percent Solids: 98 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-04 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1260	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 22:38		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		44 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		43 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		58 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-05 Date Sampled: 10/01/18 09:20 Percent Solids: 98 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-05 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		I	10/08/18 22:57		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
Aroclor 1260	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 22:57		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		55 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		53 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-06 Date Sampled: 10/01/18 09:25 Percent Solids: 97 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-06 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1254	0.4 (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 23:16		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		47 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		47 %		30-150				
Surrogate: Tetrachloro-m-xylene		51 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		55 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-07 Date Sampled: 10/01/18 09:30 Percent Solids: 97 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-07 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Se	equence <u>Batcl</u>
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1260 [2C]	0.1 (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 23:35	CJ8050
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 23:35	CJ8050
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		47 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		47 %		30-150			
Surrogate: Tetrachloro-m-xylene		55 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		60 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-08 Date Sampled: 10/01/18 09:35 Percent Solids: 97 Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-08 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1260	0.1 (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 23:54		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		47 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		47 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-09 Date Sampled: 10/01/18 09:40 Percent Solids: 96 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-09 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Sequenc	e <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 0:13	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		48 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		48 %		30-150			
Surrogate: Tetrachloro-m-xylene		51 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		53 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-10 Date Sampled: 10/01/18 09:45 Percent Solids: 97 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-10 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sector	equence <u>B</u>	atch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1260	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 0:33	C.	J80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		44 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		45 %		30-150				
Surrogate: Tetrachloro-m-xylene		44 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		48 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-11 Date Sampled: 10/01/18 09:50 Percent Solids: 97 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-11 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	Batch
Aroclor 1018 Aroclor 1221	ND (0.1) ND (0.1)		8082A 8082A		1	10/09/18 0:52	CJ80504 CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 0:52	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 0:52	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 0:52	CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 0:52	CJ80504
Aroclor 1260	0.2 (0.1)		8082A		1	10/09/18 0:52	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 0:52	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 0:52	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		55 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150			
Surrogate: Tetrachloro-m-xylene		65 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-12 Date Sampled: 10/01/18 09:55 Percent Solids: 97 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-12 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequenc	e <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1254 [2C]	0.9 (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1260	0.3 (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 1:11	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 1:11	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		73 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150			
Surrogate: Tetrachloro-m-xylene		90 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-13 Date Sampled: 10/01/18 10:00 Percent Solids: 97 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-13 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	<u>e Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1260	0.4 (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 1:30	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		64 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150			
Surrogate: Tetrachloro-m-xylene		69 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-14 Date Sampled: 10/01/18 10:05 Percent Solids: 99 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-14 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1260	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 1:49	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		<i>98 %</i>		30-150			
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150			
Surrogate: Tetrachloro-m-xylene		94 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		103 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-15 Date Sampled: 10/01/18 10:10 Percent Solids: 98 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-15 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Sequen</u>	ce Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1260	0.2 (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 2:08	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		92 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150			
Surrogate: Tetrachloro-m-xylene		91 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-16 Date Sampled: 10/01/18 10:15 Percent Solids: 98 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-16 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequen	<u>ce</u> <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 11:20	CJ80912
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		46 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		46 %		30-150			
Surrogate: Tetrachloro-m-xylene		60 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-17 Date Sampled: 10/01/18 10:20 Percent Solids: 98 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-17 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed S	equence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1260	0.2 (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 2:46		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 2:46		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>99 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-18 Date Sampled: 10/01/18 10:25 Percent Solids: 98 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-18 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1260	0.2 (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 3:05		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		63 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>75 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-19 Date Sampled: 10/01/18 10:30 Percent Solids: 98 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-19 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyzed</u> <u>Se</u>	<u>quence</u> <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1260	0.1 (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 3:24	CJ80504
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		83 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150			
Surrogate: Tetrachloro-m-xylene		79 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-20 Date Sampled: 10/01/18 10:35 Percent Solids: 97 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810174 ESS Laboratory Sample ID: 1810174-20 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/5/18 16:56

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1260	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 3:44		CJ80504
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810174

Quality Control Data

Image: Name Nume Num Nume Nume	Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Oualifier
Back CM80504 - 3540C Bink Network 1016 ND 0.02 mg/ng wet Andrei 1016 ND 0.02 mg/ng wet Not 1016 Andrei 1016 ND 0.02 mg/ng wet Not 1016 ND ND ND Andrei 1221 ND 0.02 mg/ng wet ND	· / -		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Bach Stade Bink No 0.02 mg/la wet Andor 1016 NO 0.02 mg/la wet Andor 1016 [C] NO 0.02 mg/la wet Andor 1016 [C] NO 0.02 mg/la wet Andor 1012 [C] NO 0.02 mg/la wet Andor 1012 [C] NO 0.02 mg/la wet Andor 1012 [C] NO 0.02 mg/la wet Andor 102 [C] NO 0.02 mg/la wet Andor 104 [C] NO 0.02 mg/la wet Andor 102 [C] NO 0.02 mg/la wet Andor 126 [C] NO 0.02 mg/la wet Andor 126 [C] NO 0.02 mg/la wet Andor 126 [C] NO 0.02											
Bink With 105 ND	Batch CJ80504 - 3540C										
Nation 105 6 ND 0.02 mg/hg wet Arcian 105 C121 ND 0.02 mg/hg wet Arcian 1221 ND 0.02 mg/hg wet Arcian 1221 C1 ND 0.02 mg/hg wet Arcian 1222 C1 ND 0.02 mg/hg wet Arcian 1222 C1 ND 0.02 mg/hg wet Arcian 1222 C1 ND 0.02 mg/hg wet Arcian 1224 C1 ND 0.02 mg/hg wet Arcian 1246 [2C] ND 0.02 mg/hg wet Arcian 1260 [2C] ND 0.02 mg/hg wet Arcian 1262 [2C] ND 0.02 mg/hg wet Arcian 1262 [2C] ND 0.02 mg/hg wet Arcian 1263 [2C] ND 0.02 mg/hg wet Arcian 1264 [2C] ND 0.02 mg/hg wet	Blank										
Nation log LC1ND0.02mg/hg wetArock 1221ND0.02mg/hg wetArock 1221ND0.02mg/hg wetArock 1222ND0.02mg/hg wetArock 1222ND0.02mg/hg wetArock 1222ND0.02mg/hg wetArock 1222ND0.02mg/hg wetArock 1222ND0.02mg/hg wetArock 1224ND0.02mg/hg wetArock 1226ND0.02mg/hg wetArock 1246ND0.02mg/hg wetArock 1246ND0.02mg/hg wetArock 1246ND0.02mg/hg wetArock 1250ND0.02mg/hg wetArock 1260ND0.02mg/hg wetArock 12600.40.02mg/hg wetArock 12600.50.62mg/hg wetArock 12600.50.62mg/hg wetArock 12600.50.62mg/hg wet	Aroclor 1016	ND	0.02	mg/kg wet							
National 1211 NB 0.02 mg/hg wet Marcle 122 [C] ND 0.02 mg/hg wet Marcle 1242 ND 0.02 mg/hg wet Marcle 1243 ND 0.02 mg/hg wet Marcle 1248 [C] ND 0.02 mg/hg wet Marcle 1248 [C] ND 0.02 mg/hg wet Marcle 1248 [C] ND 0.02 mg/hg wet Marcle 1240 ND 0.02 mg/hg wet Marcle 1260 ND 0.02 mg/hg wet Marcle 1262 [C] ND 0.02 mg/hg wet Marcle 1262 [C] ND 0.02 mg/hg wet Marcle 1262 [C] ND 0.02 mg/hg wet Samget: Decarkhenelphony/ 0.024 mg/hg wet 0.2550 97 39.159 Samget: Decarkhenelphony/ 0.022 </td <td>Aroclor 1016 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Noto 0.02 mg/hg wet Aroch 1222 NO 0.02 mg/hg wet Aroch 1232 [C] NO 0.02 mg/hg wet Aroch 1242 NO 0.02 mg/hg wet Aroch 1242 [C] NO 0.02 mg/hg wet Aroch 1242 [C] NO 0.02 mg/hg wet Aroch 1248 NO 0.02 mg/hg wet Aroch 1248 [C] NO 0.02 mg/hg wet Aroch 1248 [C] NO 0.02 mg/hg wet Aroch 1245 [C] NO 0.02 mg/hg wet Aroch 1262 [C] NO 0.02 mg/hg wet Aroch 1262 [ZC] NO 0.02 mg/hg wet 0.0250 91	Aroclor 1221	ND	0.02	mg/kg wet							
No 0.02 mg/ng wet Arcoin 122 [2C] NO 0.02 mg/ng wet Arcoin 124 [2C] NO 0.02 mg/ng wet Arcoin 1248 [2C] NO 0.02 mg/ng wet Arcoin 1248 [2C] NO 0.02 mg/ng wet Arcoin 1248 [2C] NO 0.02 mg/ng wet Arcoin 1262 [2C] NO 0.02 mg/ng wet Arcoin 1268 [2C] NO 0.02 mg/ng wet Arcoin 1268 [2C] NO 0.02 mg/ng wet Arcoin 1268 [2C] ND 0.02 mg/ng wet Surgate: Teachincolphony! 0.027 mg/ng wet 0.2550 97 30-157 Surgate: Teachincolphony! 0.027 mg/ng wet 0.2500 97 30-157	Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Accor 1232 NP 0.02 mg/hg wet Accor 1242 NP 0.02 mg/hg wet Accor 1242 NP 0.02 mg/hg wet Accor 1242 NP 0.02 mg/hg wet Accor 1248 NP 0.02 mg/hg wet Accor 1248 NP 0.02 mg/hg wet Accor 1254 NP 0.02 mg/hg wet Accor 1256 NP 0.02 mg/hg wet Accor 1256 NP 0.02 mg/hg wet Accor 1260 NP 0.02 mg/hg wet Accor 1262 NP 0.02 mg/hg wet Accor 1263 NP 0.02 mg/hg wet Accor 1264 NP 0.02 mg/hg wet Accor 1265 NP 0.02 mg/hg wet Accor 1268 NP 0.02 mg/hg wet Surgatic: Tetrathoro-mykee 0.02 mg/hg wet 0.0250 90 Surgatic: Tetrathoro-mykee 0.02 mg/hg wet 0.0250 90	Aroclor 1232	ND	0.02	mg/kg wet							
Ardon 1242 ND 0.02 mg/ng wet Ardon 1242 ND 0.02 mg/ng wet Ardon 1248 ND 0.02 mg/ng wet Ardon 1248 ND 0.02 mg/ng wet Ardon 1248 ND 0.02 mg/ng wet Ardon 1246 DC 0.02 mg/ng wet Ardon 1254 ND 0.02 mg/ng wet Ardon 1254 ND 0.02 mg/ng wet Ardon 1260 ND 0.02 mg/ng wet Ardon 1262 ND 0.02 mg/ng wet Sarragate: Deachfore/ophenyl 0.024 mg/ng wet 0.2550 99 30.150 Sarragate: Deachfore/ophenyl 0.024 mg/ng wet 0.2550 99 30.150 Sarragate: Extracthore	Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Arader 1248 [2C] ND 0.02 mg/hg wet Arader 1254 ND 0.02 mg/hg wet Arader 1250 ND 0.02 mg/hg wet Arader 1250 ND 0.02 mg/hg wet Arader 1252 ND 0.02 mg/hg wet Arader 1252 ND 0.02 mg/hg wet Arader 1252 ND 0.02 mg/hg wet Arader 1258 ND 0.02 mg/hg wet Arader 1258 [2C] ND 0.02 mg/hg wet Surrogatic: Deachfore/diphenyl 0.0227 mg/hg wet 0.02500 91 30-150 Surrogatic: Tetarchfore-m-sylene [2C] 0.0227 mg/hg wet 0.02500 98 30-157 Surrogatic: Tetarchfore-m-sylene [2C] 0.022 mg/hg wet 0.02500 98 30-157 Surrogatic: Tetarchfore-m-sylene [2C] 0.02 mg/hg wet 0.0500 87 40-140	Aroclor 1242	ND	0.02	mg/kg wet							
Arcobi 1248 ND 0.02 mg/kg wet Arcobi 1248 ND 0.02 mg/kg wet Arcobi 1254 ND 0.02 mg/kg wet Arcobi 1254 ND 0.02 mg/kg wet Arcobi 1256 ND 0.02 mg/kg wet Arcobi 1256 ND 0.02 mg/kg wet Arcobi 1252 ND 0.02 mg/kg wet Arcobi 1252 ND 0.02 mg/kg wet Arcobi 1263 ND 0.02 mg/kg wet Arcobi 1265 ND 0.02 mg/kg wet Surrogatic: Decarbinorbiphenyl 0.0246 mg/kg wet 0.2550 96 30-150 Surrogatic: Extenditoron-myclene 0.227 mg/kg wet 0.2500 97 30-150 Surrogatic: Extenditoron-myclene 0.227 mg/kg wet 0.2500 97 40-140 Arcobi 1261 0.4 0.02 mg/kg w	Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Archer 1248 [2C] ND 0.02 mg/hg wet Archer 1254 ND 0.02 mg/hg wet Archer 1254 [2C] ND 0.02 mg/hg wet Archer 1254 [2C] ND 0.02 mg/hg wet Archer 1256 [2C] ND 0.02 mg/hg wet Archer 1262 [2C] ND 0.02 mg/hg wet Archer 1263 [2C] ND 0.02 mg/hg wet Archer 1268 [2C] ND 0.02 mg/hg wet Surrogate: Decachibrabiphenyl 0.0225 mg/hg wet 0.02500 9f 30-150 Surrogate: Internkhore m-sylene [2C] 0.024 mg/hg wet 0.02500 9f 30-150 Surrogate: Internkhore m-sylene [2C] 0.024 mg/hg wet 0.02500 9f 40-140 Archer 1250 0.5 0.02 mg/hg wet 0.0500 9f </td <td>Aroclor 1248</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1248	ND	0.02	mg/kg wet							
Arada 1254 ND 0.02 mg/kg wet Arada 1254 [2C] ND 0.02 mg/kg wet Arada 1260 [2C] ND 0.02 mg/kg wet Arada 1260 [2C] ND 0.02 mg/kg wet Arada 1260 [2C] ND 0.02 mg/kg wet Arada 1261 [2C] ND 0.02 mg/kg wet Arada 1263 [2C] ND 0.02 mg/kg wet Surragate: Tetrachion-m-sylene 0.0225 mg/kg wet 0.02500 90 30-150 Surragate: Tetrachion-m-sylene [2C] 0.4244 mg/kg wet 0.02500 97 40-140 Aradar 1016 0.4 0.02 mg/kg wet 0.5000 87 40-140 Aradar 1261 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Aradar 1261 [2C] 0.4 0.02 m	Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Arcobe 1264 [2C] ND 0.02 mg/kg wet Arcobe 1260 ND 0.02 mg/kg wet	Aroclor 1254	ND	0.02	mg/kg wet							
Arcoba 1260 ND 0.02 mg/kg wet Arcoba 1260 [2C] ND 0.02 mg/kg wet Arcoba 1262 [2C] ND 0.02 mg/kg wet Arcoba 1268 ND 0.02 mg/kg wet 0.25200 98 30-150 Surrogate: Decachionobphenyl [2C] 0.2227 mg/kg wet 0.25200 98 30-150 Surrogate: Tetrachiono-m-sylene 0.2225 mg/kg wet 0.25200 98 30-150 Surrogate: Tetrachiono-m-sylene [2C] 0.4224 mg/kg wet 0.2500 98 30-150 Surrogate: Tetrachiono-m-sylene [2C] 0.422 mg/kg wet 0.5000 86 40-140 Arcoba 1016 0.4 0.02 mg/kg wet 0.5000 97 40-140 Arcoba 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Surrogate: Decachionobphenyl [2C]	Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Arcoba 1260 [2C] ND 0.02 mg/kg wet Arcoba 1260 [2C] ND 0.02 mg/kg wet Arcoba 1261 [2C] ND 0.02 mg/kg wet Arcoba 1268 [2C] ND 0.02 mg/kg wet Arcoba 1268 [2C] ND 0.02 mg/kg wet Arcoba 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decachlorobiphenyl 0.02277 mg/kg wet 0.02500 98 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0227 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-sylene 0.022 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.024 mg/kg wet 0.02500 98 30-150 Kotch 1106 0.4 0.02 mg/kg wet 0.0500 86 40-140 Arcoba 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Surrogate: Tetrachloro-m-sylene 0.022 mg/kg wet 0.5000 86 40-140 Surrogate: Decachlorobiphenyl 0.02 mg/kg wet 0.2500 <td>Aroclor 1260</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1260	ND	0.02	mg/kg wet							
Aracker 1262 ND 0.02 mg/kg wet Acockor 1262 [2C] ND 0.02 mg/kg wet Arackor 1268 [2C] ND 0.02 mg/kg wet Arackor 1268 [2C] ND 0.02 mg/kg wet Arackor 1268 [2C] ND 0.02 mg/kg wet Surragate: Decathorobiphenyl 0.0227 mg/kg wet 0.02500 91 30-150 Surragate: Tetrachioro-m-sylene 0.0225 mg/kg wet 0.02500 98 30-150 Surragate: Tetrachioro-m-sylene 0.022 mg/kg wet 0.02500 90 30-150 Surragate: Tetrachioro-m-sylene 0.022 mg/kg wet 0.02500 98 30-150 Surragate: Tetrachioro-m-sylene 0.4 0.02 mg/kg wet 0.5000 86 40-140 Arackor 1016 0.4 0.02 mg/kg wet 0.5000 86 40-140 Arackor 1260 0.5 0.02 mg/kg wet 0.5000 86 40-140 Surragate: Decathorobiphenyl 0.4 0.02 mg/kg wet 0.2500 <td>Aroclor 1260 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aracder 1282 [2C] ND 0.02 mg/kg wet Aracder 1282 [3C] ND 0.02 mg/kg wet Aracder 1283 [3C] ND 0.02 mg/kg wet Surrogate: Decachlorobiphenyl 0.022 mg/kg wet 0.02200 98 30-150 Surrogate: Decachlorobiphenyl 0.0225 mg/kg wet 0.02500 90 30-150 Surrogate: Tetrachloro-m-sylene 0.022 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-sylene 0.022 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-sylene 0.021 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-sylene 0.02 mg/kg wet 0.02500 98 30-150 LCS 0.02 mg/kg wet 0.5000 86 40-140 Arcolor 1260 0.5 0.02 mg/kg wet 0.5000 97 40-140 Surrogate: Decachlorobiphenyl 0.4 0.02 mg/kg wet 0.202500 89 30-150	Aroclor 1262	ND	0.02	mg/kg wet							
Aracker 1268 ND 0.02 mg/kg wet Aracker 1268 [2C] ND 0.02 mg/kg wet 0.02500 98 30-150 Surrogate: Decachlorobiphenyl 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Decachlorobiphenyl 0.0227 mg/kg wet 0.02500 90 30-150 Surrogate: Decachlorobiphenyl 0.02244 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-sydene 0.02244 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-sydene 0.02 mg/kg wet 0.0200 86 40-140 Arocker 1016 Arocker 1016 0.4 0.02 mg/kg wet 0.5000 86 40-140 Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.20500 97 30-150 Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.02500 88 30-150 Surrogate: Decachlor	Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aractor 1268 [2] ND 0.02 mg/kg wet Surragate: Decachlarabiphenyl 0.02246 mg/kg wet 0.02500 98 30-150 Surragate: Decachlarabiphenyl [2C] 0.0227 mg/kg wet 0.02500 90 30-150 Surragate: Tetrachloro-m-xylene 0.0225 mg/kg wet 0.02500 90 30-150 Surragate: Tetrachloro-m-xylene 0.02244 mg/kg wet 0.02500 98 30-150 Surragate: Tetrachloro-m-xylene 0.022 mg/kg wet 0.0200 98 30-150 LS 0.44 0.02 mg/kg wet 0.5000 87 40-140 Aractor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Surragate: Decachlarabiphenyl 0.4 0.02 mg/kg wet 0.5000 97 40-140 Surragate: Decachlarabiphenyl 0.4 0.02 mg/kg wet 0.5000 97 30-150 Surragate: Decachlarabiphenyl 0.0243 mg/kg wet 0.02500 97 30-	Aroclor 1268	ND	0.02	mg/kg wet							
Surragate: Decachlorobiphenyl 0.0246 mg/kg wet 0.02500 98 30-150 Surragate: Decachlorobiphenyl [2C] 0.0227 mg/kg wet 0.02500 91 30-150 Surragate: Tetachloro-m-xylene 0.0225 mg/kg wet 0.02500 98 30-150 Surragate: Tetachloro-m-xylene 0.02244 mg/kg wet 0.02500 98 30-150 LCS Nacobr 1016 0.4 0.02 mg/kg wet 0.5000 87 40-140 Arochr 1016 0.4 0.02 mg/kg wet 0.5000 86 40-140 Arochr 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Surragate: Decachlorobiphenyl 0.4 0.02 mg/kg wet 0.5000 97 40-140 Surragate: Decachlorobiphenyl 0.0221 mg/kg wet 0.5000 97 30-150 Surragate: Decachlorobiphenyl 0.0221 mg/kg wet 0.02500 97 30-150 Surragate: Decachlorobiphenyl [2C] 0.0227 mg/kg wet 0.02500 </td <td>Aroclor 1268 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl [2C] 0.0227 mg/kg wet 0.0250 91 30-150 Surrogate: Tetrachloro-m-sylene 0.0225 mg/kg wet 0.02500 90 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0244 mg/kg wet 0.02500 98 30-150 LCS Nacobr 1016 0.4 0.02 mg/kg wet 0.5000 86 40-140 Arockor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Arockor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.5000 97 30-150 Surrogate: Decachlorobiphenyl 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachloro-m-sylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0227 mg/kg wet 0.02500 81 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0227 mg/kg wet 0.02	Surrogate: Decachlorobiphenyl	0.0246		mg/kg wet	0.02500		98	30-150			
Surrogate: Tetrachloro-m-xylene 0.0225 mg/kg wet 0.02500 90 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0244 mg/kg wet 0.02500 98 30-150 LCS	Surrogate: Decachlorobiphenyl [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
Surragate: Tetrachloro-m-xylene [2C] 0.0244 mg/kg wet 0.02500 98 30-150 LCS Arcolor 1016 0.4 0.02 mg/kg wet 0.5000 87 40-140 Arcolor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Arcolor 1260 0.5 0.02 mg/kg wet 0.5000 97 40-140 Arcolor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Surragate: Decachlorobiphenyl 0.0243 mg/kg wet 0.02500 97 30-150 Surragate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 89 30-150 Surragate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surragate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Arcolor 1016 [2C] 0.5<	Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90	30-150			
LCS Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 87 40-140 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 97 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 97 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.02500 97 30-150 Surrogate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor	Surrogate: Tetrachloro-m-xylene [2C]	0.0244		mg/kg wet	0.02500		98	30-150			
Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 87 40-140 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 97 40-140 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 97 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Surragate: Decachlorobiphenyl 0.0243 mg/kg wet 0.2500 97 30-150 Surragate: Tetrachloro-m-xylene 0.0221 mg/kg wet 0.2500 89 30-150 Surragate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.2500 88 30-150 Surragate: Tetrachloro-m-xylene [2C] 0.022 mg/kg wet 0.2500 91 30-140 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260	LCS										
Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 86 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.02500 97 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 88 30-150 CSD bp E E E E E E Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surr	Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 97 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.02500 97 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup ng/kg wet 0.02500 91 30-140 4 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Surrogate: Decachlorobiphenyl 0.5 0.02 mg/kg wet 0.5000 90	Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.02500 97 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Surrogate: Decachlorobiphenyl 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobiphenyl	Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		97	40-140			
Surrogate: Decachlorobiphenyl 0.0243 mg/kg wet 0.02500 97 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Surrogate: Decachlorobiphenyl 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 101 30-150 50 30 50	Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0	Surrogate: Decachlorobiphenyl	0.0243		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene 0.0219 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Surrogate: Decachlorobipheny/ 0.0253 mg/kg wet 0.02500 90 40-140 5 30 Surrogate: Decachlorobipheny/ 0.0253 mg/kg wet 0.02500 90 40-140 5 30 Surrogate: Decachlorobipheny/ 0.0253 mg/kg wet 0.02500 92 30-150 90	Surrogate: Decachlorobiphenyl [2C]	0.0221		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0227 mg/kg wet 0.02500 91 30-150 LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 92 30-150 Surrogate: Decachlorobiphenyl 0.0230 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene	Surrogate: Tetrachloro-m-xylene	0.0219		mg/kg wet	0.02500		88	30-150			
LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 101 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0236 mg/kg wet 0.02500 94 30-150	Surrogate: Tetrachloro-m-xylene [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 101 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0236 mg/kg wet 0.02500 94 30-150	LCS Dup										
Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 101 30-150 5 Surrogate: Decachlorobiphenyl [2C] 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0236 mg/kg wet 0.02500 94 30-150	Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		91	40-140	4	30	
Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 4 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobipheny/ 0.0253 mg/kg wet 0.02500 101 30-150 Surrogate: Decachlorobipheny/ 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0236 mg/kg wet 0.02500 94 30-150	Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140	4	30	
Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 5 30 Surrogate: Decachlorobipheny/ 0.0253 mg/kg wet 0.02500 101 30-150 Surrogate: Decachlorobipheny/ 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0226 mg/kg wet 0.02500 91 30-150	Aroclor 1260	0.5	0.02	ma/ka wet	0.5000		101	40-140	4	30	
Surrogate: Decachlorobiphenyl 0.0253 mg/kg wet 0.02500 101 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150	Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140	5	30	
Surrogate: Decachlorobiphenyl [2C] 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0236 mg/kg wet 0.02500 94 30-150	Surragate: Decachlorahinhenul	0.0253		mg/ka wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0236 mg/kg wet 0.02500 94 30-150	Surrogate. Decachlorobiphenyl [20]	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro.m. xylone [2C] 0.0236 ma/ka wet 0.02500 94 30-150	Surrogate. DecachiorobipHeHyl [20]	0.0228		mg/kg wet	0.02500		91	30-150			
	Surrogate. Tetrachloro-m-vylene	0.0236		mg/kg wet	0.02500		94	30-150			
				5. 5 - 1							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810174

Quality Control Data

	. .			Spike	Source	0/550	%REC	000	RPD	0 ""
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ80912 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0199		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0184		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0180		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		110	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0211		mg/kg wet	0.02500		84	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	5	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		106	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0211		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0191		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xylene	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0198		mg/kg wet	0.02500		79	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



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ESS Laboratory Work Order: 1810174

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§ 1 2 3 Avg NR	Subcontracted analysis; see attached report Range result excludes concentrations of surrogates and/or internal standards eluting in that range. Range result excludes concentrations of target analytes eluting in that range. Range result excludes the concentration of the C9-C10 aromatic range. Results reported as a mathematical average. No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



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ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1810174	
Shipped/Delivered Via: ESS Courier	Project Due Date: 10/12/2018 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.:NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM?	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / NA
Temp: <u>3.2</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes No
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: Ву: Time: Ву:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes No Yes Ne Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274489	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274488	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274487	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	274486	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274485	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	274484	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	274483	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	274482	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	274481	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	274480	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	274479	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	274478	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	274477	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	274476	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	274475	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
16	274474	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
17	274473	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	274472	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
19	274471	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
20	274470	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review

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Are barcode labels on correct containers?

Yes (No

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	A	ESS Project ID:	1(310174
Are all necessary strikers attached?	(Yes) No	Date Received: _	10	/4/2018
Completed		1 ability	2124	
By:	Date & Time:	<u>1014118</u>	<u>qis</u> l	
Reviewed By:	Date & Time:	00/4	18	2216
Delivered By:			4/18	A216
			1	· •

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ALC: NO.

ALL DURING

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ESS La	aboratory	,		с	HAIN OF CUSTOD	Y	ESS Lab) #	K	<u>SIC</u>		14					
Division of Thielsch Engineering, Inc. Turn Time			5-Day Rush		Reporting			PCBs < 0.5 mg/kg						i			
185 Frances Avenue, Cranston RI 02910 Regulatory State			Rhode Island		Limits) Г		hockor					tandard Eval				
Tel. (401) 461-7181 Fax (401) 461-4486		ls thi	s project for any of the follow	ving?:	Electon	NC L		Diease '	Snecify	-)	PDF						
www.esslaboratory.com			Project Na		Deliverat				Speeny -	7 				\square			
	Coneco Eng	npany Name	entists	5675.F	Pawtucket 1 Control House, 6 Tho	mton Ave, Pawtucket RI										1	
	Coneco Eng	tact Person			Address		sis							1		4	
·		lark Zoller			4 First Street	PO #	aly:						1				
	City	-		ate AA	21p Code 02324	5675.F	An										
т	elephone Nur	nber 1	FAX	lumber	Email Addr jaevazalis, mzoller,kloftu	ess s@coneco.com		8082									
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	nple ID		PCBS									_
01	10/1/2018	9:00 a.m.	Grab	Solid	ICS		x				_	_			$\left \right $		
02	10/1/2018	9:05 a.m.	Grab	Solid	ICS-01-02			×	_			_				┢─┤╸	_
03	10/1/2018	9:10 a.m.	Grab	Solid			×										
04	10/1/2018	9:15 a.m.	Grab	Solid	ICS-01-04			X						┟		╞╍╋	_ <u> </u>
05	10/1/2018	9:20 a.m.	Grab	Solid	ICS		X						┞ ┞-		╞╼╇		
06	10/1/2018	9:25 a.m.	Grab	Solid			X								\vdash		
07	10/1/2018	9:30 a.m.	Grab	Solid	ICS		X				╉				┢─┼		
08	10/1/2018	9:35 a.m.	Grab	Solid							+				┢━┼╴		
09	10/1/2018	9:40 a.m.	Grab	Solid	ICS		X						╞━┼	_	┼╌┾		
10	10/1/2018	9:45 a.m.	Grab	Solid		-01-10		X				- -		++	-+	╞╌┾	╺┼╶┽─
Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	ss B-BOD Bottle (C-Cubitainer G - Glass O-C	other P-Poly S-Ste	erile V-Vial	AG		+				┿╌┞╴	_+_	╞╌┿	╾┼┈┿──
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 mi	4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	2 9-4 oz 10-8 oz	11-Other*	9						+ +	_	┢━─┼╴	
Prese	vation Code:	1-Non Preserved	1 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaC	DH 9-NH4CI 10-DI H20	0 11-Other*									++	-+
	_	/_			Numbe	er of Containers per	Sample:	1			1						<u>_</u>
		Laborator	y Use Only		Sampled by : NRH/DJI	MJM											<u> </u>
Coole	Present:		-		Comments:	Please sp	ecify "Othe	er" pro	eserva	tive ar	nd cont	tainers	types i	n this s	pace		
Seal	s Intact:		-		National C	Grid Project, Use Mar	ual Soxhlei	t Extra	ction p	er EP/	A Metho	od 3540	, Repor	t Dry W	eight		
Cooler T	emperature:	1.8+3.2	°CILE2	<u>د</u>			(0)	Dat	0 Tim				und Bur	/Signal	ure D	ato & T	ime)
Relinquished by: (Signature, Date & Time) Received By: (S				(Signature, Date & Time)	Relinquished By	(Signature	3, Date		e)			veu by.					
Pear Dillion 10/4/18 12:30 7.12 R. Culin				10/4/18 1330 R. Culm 10/4/18 1545 (10/4/18 204))							
Re	elinquished by	: (Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	/: (Signature	e, Date	e & Tim	ie)		kece:	veu By:	(Signal	ure, D		
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Division of Thielsch Engineering Inc.			Turn Time	5-Day Rush	5-Day Rush		ng		PCBs < 0.5 mg/kg						
185 Frances Avenue, Cranston RI 02910 Regulatory State			Rhode Island		Limits	; 									
Tel. (401) 461-7181 Fax (401) 461-4486 Is th		s project for any of the followi	ing?:	Electon	nic L Moe ⊑										
www.esslaboratory.com			OMA MCP OR	ur	Denverat			Se Speciny -	$\frac{3}{1}$ T				T		
	Con	ipany Name	entists	Project # 5675.F	Pawtucket 1 Control House,	6 Thornton Ave,		1							
	Coneco Eng	itact Person	CIIII313		Address		Sis								
	N	lark Zoller			4 First Street	PO #	haly								
	City		St N	ate NA	02324	<u>5675.F</u>	ĮĀ								
<u></u>	elephone Nur 508-697-319	nber)1	FAX	lumber	Email Addre jaevazalis, mzoller kloftus	ss @coneco.com		s 808;							
ESS Lab	Collection	Collection Time	Sample Type	Sample Matrix	Samp	ple ID		E PC PC			_		_ _		+
11	10/1/2018	9:50 a.m.	Grab	Solid	ICS-C	01-11		×		++					╆╢━
12	10/1/2018	9:55 a.m.	Grab	Solid	ICS-(01-12		X					_		+ + -
13	10/1/2018	10:00 a.m.	Grab	Solid	ICS-(01-13		X			++				┥┼
14	10/1/2018	10:05 a.m.	Grab	Solid	ICS-0	01-14		×			++	┤─┤─┥			╅╺╋┈
15	10/1/2018	10:10 a.m.	Grab	Solid	ICS-	01-15		X			╶┼╶┟╴	┦━┦━┫			┥
16	10/1/2018	10:15 a.m.	Grab	Solid	ICS-	01-16		X							┦
17	10/1/2018	10:20 a.m.	Grab	Solid		01-17		×		_╆_┞		+ +	┝━┼╺╉		┼╾┞╼
18	10/1/2018	10:25 a.m.	Grab	Solid	ICS-	01-18		X		-+-+	- ┼┄-┽-		┝━╍┟╺╼┨		┼╌┼━
19	10/1/2018	10:30 a.m.	Grab	Solid	ICS-	01-19						╶┼╶┽╺	- -		┽╆╴
20	10/1/2018	10:35 a.m.	Grab	Solid	ICS-	01-20		X		_ _					╉╋
Co	ontainer Type:	AC-Air Casse	tte AG-Amber Gl	ass B-BOD Bottle	C-Cubitainer J-Jar O-Oth	Der P-Poly S-St		* 0		-┼╍╂	-+				+
Cont	ainer Volume:	1-100 mL 2	2-2.5 gal 3-250 m	L 4-300 mL 5-50	UML 6-1L /-VUA 8-2 0Z		0 11-0ther*	1			-+-+			- -	
Prese	rvation Code:	1-Non Preserve	ed 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-	MEUH /-Na25203 6-2114Ce, Naor	r of Containers pe	r Sample:	$\frac{1}{1}$		+ †					
		Laborator	rv Use Oniv		Sampled by : NRH/DJD/	/MJM			·1 ·I	ii					
	- Dreecht		,,		Comments:	Please s	pecify "Oth	er" pr	eservative	e and cor	ntainers t	ypes in this	space		
Sea	Is Intact:		-		National Grid Project, Use Ma	nual Soxhlet Extrac	tion per EP.	A Meth	nod 3540, i	Report D	ry Weight				
Cooler T	emperature:	1.8 + 3.2	OICE R	L							<u></u>		otuto Do	to 8 Tir	<u></u>
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810175

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 2:14 pm, Oct 12, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810175

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810175-01	ICS-01-21	Soil	8082A
1810175-02	ICS-01-22	Soil	8082A
1810175-03	ICS-01-23	Soil	8082A
1810175-04	ICS-01-24	Soil	8082A
1810175-05	ICS-01-25	Soil	8082A
1810175-06	ICS-01-26	Soil	8082A
1810175-07	ICS-01-27	Soil	8082A
1810175-08	ICS-01-28	Soil	8082A
1810175-09	ICS-01-29	Soil	8082A
1810175-10	ICS-01-30	Soil	8082A
1810175-11	ICS-01-31	Soil	8082A
1810175-12	ICS-01-32	Soil	8082A
1810175-13	ICS-01-33	Soil	8082A
1810175-14	ICS-01-34	Soil	8082A
1810175-15	ICS-01-35	Soil	8082A
1810175-16	ICS-01-36	Soil	8082A
1810175-17	ICS-01-37	Soil	8082A
1810175-18	ICS-01-38	Soil	8082A
1810175-19	ICS-01-39	Soil	8082A
1810175-20	ICS-01-40	Soil	8082A


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810175

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1810175-01	Lower value is used due to matrix interferences (LC).
	Aroclor 1260 [2C]
1810175-01	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1260 [2C]
1810175-06	Lower value is used due to matrix interferences (LC).
	Aroclor 1260 [2C]
1810175-06	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1260 [2C]

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810175

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-21 Date Sampled: 10/01/18 10:40 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-01 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Sequence	e <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1260 [2C]	LC, P 0.1 (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 14:20	CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 14:20	CJ80602
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		57 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150			
Surrogate: Tetrachloro-m-xylene		71 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-22 Date Sampled: 10/01/18 10:45 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-02 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Sequ	uence <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1254	0.1 (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1260	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 14:37	CJ80602
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		53 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		52 %		30-150			
Surrogate: Tetrachloro-m-xylene		78 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-23 Date Sampled: 10/01/18 10:50 Percent Solids: 99 Initial Volume: 5.63 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-03 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Se	<u>quence</u> <u>Batch</u>
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1254 [2C]	0.2 (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1260	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 14:56	CJ80602
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		55 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		50 %		30-150			
Surrogate: Tetrachloro-m-xylene		79 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-24 Date Sampled: 10/01/18 10:55 Percent Solids: 99 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-04 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Se	equence Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 15:15	CJ80602
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		84 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150			
Surrogate: Tetrachloro-m-xylene		94 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-25 Date Sampled: 10/01/18 11:00 Percent Solids: 97 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-05 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1254 [2C]	0.6 (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 13:45		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		55 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-26 Date Sampled: 10/01/18 11:05 Percent Solids: 96 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-06 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1260 [2C]	LC, P 0.2 (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 15:54		CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 15:54		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		54 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		53 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-27 Date Sampled: 10/01/18 11:10 Percent Solids: 97 Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-07 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1260	0.1 (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 16:13		CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 16:13		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-28 Date Sampled: 10/01/18 11:15 Percent Solids: 97 Initial Volume: 5.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-08 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	<u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1254 [2C]	0.1 (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1260	0.1 (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 16:32	CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 16:32	CJ80602
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		50 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		50 %		30-150			
Surrogate: Tetrachloro-m-xylene		52 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		55 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-29 Date Sampled: 10/01/18 11:20 Percent Solids: 97 Initial Volume: 5.54 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-09 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1254	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1260	0.3 (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 16:51		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-30 Date Sampled: 10/01/18 11:25 Percent Solids: 96 Initial Volume: 5.66 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-10 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1254 [2C]	0.2 (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1260	0.2 (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 17:10		CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 17:10		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		62 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-31 Date Sampled: 10/01/18 11:30 Percent Solids: 96 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-11 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 14:04		CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 14:04		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		37 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		43 %		30-150				
Surrogate: Tetrachloro-m-xylene		33 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		40 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-32 Date Sampled: 10/01/18 11:35 Percent Solids: 99 Initial Volume: 5.67 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-12 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1254	0.6 (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1260	0.3 (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 17:49		CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 17:49		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>79 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-33 Date Sampled: 10/01/18 11:40 Percent Solids: 98 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-13 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Sequence	e <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
Aroclor 1254	8.9 (0.5)		8082A		5	10/10/18 22:13	CJ80602
Aroclor 1260	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 18:08	CJ80602
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		68 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150			
Surrogate: Tetrachloro-m-xylene		69 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-34 Date Sampled: 10/01/18 11:45 Percent Solids: 99 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-14 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1254	0.2 (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1260	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 18:27		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		87 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-35 Date Sampled: 10/01/18 11:50 Percent Solids: 99 Initial Volume: 5.46 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-15 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	<u>Batch</u>
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1254	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1260 [2C]	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 18:46		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-36 Date Sampled: 10/01/18 11:55 Percent Solids: 99 Initial Volume: 5.53 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-16 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Se	quence Batch
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1254	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1260	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 19:05	CJ80602
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		69 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150			
Surrogate: Tetrachloro-m-xylene		64 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-37 Date Sampled: 10/01/18 12:00 Percent Solids: 99 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-17 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1242	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1254	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1260	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
Aroclor 1268	ND (0.1)		8082A		1	10/09/18 19:24		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		51 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		49 %		30-150				
Surrogate: Tetrachloro-m-xylene		47 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-38 Date Sampled: 10/01/18 12:05 Percent Solids: 99 Initial Volume: 5.32 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-18 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1254	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1260	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 22:16		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-39 Date Sampled: 10/01/18 12:10 Percent Solids: 99 Initial Volume: 5.45 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-19 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1254	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1260	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 22:36		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-40 Date Sampled: 10/01/18 12:15 Percent Solids: 99 Initial Volume: 5.8 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810175 ESS Laboratory Sample ID: 1810175-20 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1221	ND (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1232	ND (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1242	ND (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1248	ND (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1254 [2C]	0.2 (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1260	0.1 (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1262	ND (0.09)		8082A		1	10/09/18 22:55		CJ80602
Aroclor 1268	ND (0.09)		8082A		1	10/09/18 22:55		CJ80602
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		101 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		106 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		113 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810175

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Oualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)		2			- Leanner
		,		. ,	. ,					
Batch CJ80602 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0224		mg/kg wet	0.02500		90	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0213		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0238		mg/kg wet	0.02500		95	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobiphenyl	0.0247		mg/kg wet	0.02500		<i>99</i>	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0228		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0231		mg/kg wet	0.02500		<i>92</i>	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0240		mg/kg wet	0.02500		96	30-150			
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140	6	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140	8	30	
Aroclor 1260	0.5	0.02	ma/ka wet	0.5000		109	40-140	7	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140	8	30	
Surrogate: Decachlorohiphenvl	0.0265		mg/kg wet	0.02500		106	30-150			
Surrogate' Decachlorobiphenyl [2C]	0.0245		mg/kg wet	0.02500		98	30-150			
Surrogate' Tetrachloro-m-vvlene	0.0248		mg/kg wet	0.02500		<i>99</i>	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0259		mg/kg wet	0.02500		103	30-150			
Batch CJ80913 - 3540C										



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810175

Quality Control Data

	. .			Spike	Source	0/5=0	%REC	000	RPD	0 ""
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ80913 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0233		mg/kg wet	0.02500		93	30-150			
Surrogate: Tetrachloro-m-xylene	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0250		mg/kg wet	0.02500		100	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		103	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		103	40-140			
Surrogate: Decachlorobiphenyl	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0228		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		107	40-140	5	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		107	40-140	4	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		98	40-140	6	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		108	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0221		mg/kg wet	0.02500		89	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0244		mg/kg wet	0.02500		98	30-150			
Surrogate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810175

Notes and Definitions

U	Analyte included in the analysis, but not detected
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit

EDL Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810175

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB/MM</u> Shipped/Delivered Via: <u>ESS Courier</u> 1. Air bill manifest present? <u>No</u>	ESS Project ID: 1810175 Date Received: 10/4/2018 Project Due Date: 10/12/2018 Days for Project: 5 Day 6. Does COC match bottles?	 Yes
All NO. NA 2. Were custody seals present? No 3. Is radiation count <100 CPM?	 7. Is COC complete and correct? 8. Were samples received intact? 9. Were labs informed about <u>short holds & rushes</u>? 10. Were any analyses received outside of hold time? 	Yes Yes / Nor NA Yes / No
11. Any Subcontracting needed? Yes 100 ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date:	Time: By: Time: By:	
14. Was there a need to contact Project Manager? Yes a. Was there a need to contact the client? Yes Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274509	Yes	ŇA	Yes	4 oz. Jar - Unpres	NP	
02	274508	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274507	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	274506	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274505	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	274504	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	274503	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	274502	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	274501	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	274500	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	274499	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	274498	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	274497	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	274496	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	274495	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
16	274494	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
17	274493	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	274492	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
19	274491	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
20	274490	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review Are barcode labels on correct containers?



ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco Engineers, Scientists & Surv - KPB/TB/MM	_	ESS Project ID:	1810175
	<u> </u>	A	Date Received:	10/4/2018
Are all nece	ssary stickers attached?	(Yes)/No	. 1	
• • • •		\smile		020
Completed By:		Date & Time:	10/4/8	7159
Reviewed				
By:		Date & Time:	co/4/lk	2218
Delivered	()	-		° n
By:			10/4/18	2218

ESS L	aboratory	/		C	HAIN OF CUSTO	ργ	ESS La	b #	R	101	75					
Division of Thielsch Engineering, Inc. Turn Time					5-Day Rush		Reporting PCBs <0.5 mg			oolko						
185 Frances Avenue, Cranston RI 02910 Regulatory State					Rhode Island		Limit	3	<u>.</u>			IS NO.0 II	igny			
Tel. (401)	461-7181 Fa	x (401) 461-44	86	Is thi	is project for any of the follow	wing?:	Elector	nic [Limit Chec	ker		Stan	lard Excel			
www.essla	boratory.com			OCT RCP	OMA MCP O	RGP	Delivera	bles [-	JOther (Ple	ase Specify	→)			PDF		
	Cor Coneco Eng	npany Name gineers and Sci	ientists	5675.F	Project Name Pawtucket 1 Control House, 6 Thornton Ave, Pawtucket RI											
	Coi	ntact Person Aark Zoller			4 First Street		ysis									
	City		S	tate	Zip Code	PO #	Anai									
	Bridgewate	n	FAX	//A Jumber	02324 Email Addr	5675.F ess	- `	8								
	508-697-319	91			jaevazalis, mzoller,kloftu	is@coneco.com) 80								
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID		PCBs								
01	10/1/2018	10:40 a.m.	Grab	Solid	ICS	-01-21		x								
02	10/1/2018	10:45 a.m.	Grab	Solid	ICS	-01-22		х								
03	10/1/2018	10:50 a.m.	Grab	Solid	ICS	-01-23		x								
04	10/1/2018	10:55 a.m.	Grab	Solid	Solid ICS-01-24											
05	10/1/2018	11:00 a.m.	Grab	Solid	Solid ICS-01-25											
06	10/1/2018	11:05 a.m.	Grab	Solid	ICS		x									
07	10/1/2018	11:10 a.m.	Grab	Solid	ICS		x	_						<u> </u>		
08	10/1/2018	11:15 a.m.	Grab	Solid	ICS	-01-28		X							\downarrow	
09	10/1/2018	11:20 a.m.	Grab	Solid	ICS	-01-29		X								
10	10/1/2018	11:25 a.m.	Grab	Solid	ICS	-01-30		X								
Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	rile V-Vial	AG							\downarrow	
Conta	iner Volume:	1-100 mL 2-	-2.5 gal 3-250 mL	. 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9							+	
Preser	vation Code:	1-Non Preserved	1 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaO	H 9-NH4CI 10-DI H2C	0 11-Other*	1	+ $+$			_			╺╁╾╾┽	
		/			Numbe	r of Containers per	Sample:	1								
		Laboratory	y Use Only		Sampled by : ACC/MJN											
Cooler	Present:	\checkmark			Comments:	Please sp	ecify "Othe	er" pres	ervative	and con	tainers ty	pes in th	iis spac	e		
Seals	s Intact:				National G	irid Project, Use Man	ual Soxhlet	Extrac	tion per E	PA Meth	od 3540, i	Report D	y Weigi	nt		
Cooler Te	emperature:	1,8+3.2	°CICE 20			- ·			-							
Re	linquished by:	(Signature, Da	te & Time)	Received By: ((Signature, Date & Time)	Relinquished By	: (Signature	, Date	& Time)	$\perp \triangle$	Receive	ed By: (Si	gnature,	Date 8	، Time))
Filin	50m	10/41	18 12:30 PM	2 Carlin	5 10 4 18 1330	2 Carlis	10/4/	181	545			Jely	K	Ð	7	
Re	linquished by:	(Signature, Da	ite & Time)	Received By: ((Signature, Date & Time)	Relinguished By	: (Sighature	, Date	& Time)		Receive	ed By: (Si	gnature	Date 8	ر T ime)

ESS Laboratory CHAIN OF CUSTODY					Y	ESS La	o #	18	101	15						
Division of Thielsch Engineering, Inc. Turn Time					5-Day Rush		Reporti	Reporting PCBs < 0.5 mg/kg								
185 Frances Avenue, Cranston RI 02910 Regulatory State				Rhode Island		Limits	3			- CD3	5 < 0.5 mg	J/ng				
Tel. (401) 461-7181 Fax (401) 461-4486 Is this				s project for any of the follow	ving?:	Elector	nic 🗆	Limit Checke	er							
www.essla	boratory.com			OCT RCP		RGP	Deliveral	oles 🔽	Other (Pleas	e Specify -)	<u>-</u>	101-	- -		_
	Con	npany Name		Project #	Project Nai Bouduckot 1 Control House	ne A Thornton Ave										
		ineers and Sci stact Person	enusis	5675.F	Address	, o moniton Ave,	<u></u>									
	۵۵۱ ۸	Aark Zoller			4 First Street		lysi									
	City		SI	ate	Zip Code	PO#	Ana				1 1					
	Bridgewate	r mher	EAX N	lumber	UZ324 Email Addre	30/0.F	+	8								
•	508-697-319	91	1747	lumber	jaevazalis, mzoller,kloftu	s@coneco.com		8 8								
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID		PCBS								
11	10/1/2018	11:30 a.m.	Grab	Solid	ICS-	01-31		x								
12	10/1/2018	11:35 a.m.	Grab	Solid	ICS-	01-32		X								
13	10/1/2018	11:40 a.m.	Grab	Solid	ICS-	01-33		х								
14	10/1/2018	11:45 a.m.	Grab	Solid	ICS-	01-34		x								_
15	10/1/2018	11:50 a.m.	Grab	Solid	ICS-	01-35		x								
16	10/1/2018	1 1 :55 a.m.	Grab	Solid	ICS		X									
17	10/1/2018	12:00 p.m.	Grab	Solid	ICS-		X		<u></u>							
18	10/1/2018	12:05 p.m.	Grab	Solid	ICS		X		+							
19	10/1/2018	12:10 p.m.	Grab	Solid	ICS-		X									
20	10/1/2018	12:15 p.m.	Grab	Solid	ICS-	01-40		X					+			
Co	ntainer Type:	AC-Air Casset	tte AG-Amber Gla	iss B-BOD Bottle	C-Cubitainer J-Jar O-Otr	er P-Poly S-Ste	erile V-Viai	AG			+					
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 mL	. 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 0Z 10-8 0Z	11-Other	9					+ +			
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-I	MeOH 7-Na2S2O3 8-ZnAce, NaOI	4 9-NH4CI 10-DI H20	Communication	1				<u> </u>	┼─┼─			
			· · · · · ·		Numbe	r or Containers per	sample:						1			
		Laborator	y Use Only		Sampled by: NRH/DJD/	MJM		•						<u> </u>		
Coole	r Present:				Comments:	Please sp	ecify "Othe	er" pres	servative	and cont	ainers ty	pes in thi	s space)		
Seal	s Intact:		•		National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight											
Cooler Temperature: 1.8+3.2 °CICE RC																
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished B	/: (Signature	e, Date	& Time)	$\downarrow /$	Receive	d By: (Sig	nature, I	Date & T	ime)	
Flan	\$ Jun	n 1941	18 12:30 p.m.	2 Calis	5 10/4/18 1330	R. Cala	510/4	118	1545		IN	~ 10	4/18	æ	17	
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished B	y: (Signature	e, Date	& Time)		Receive	d By: (Sig	nature, I	Date & T	ïme)	
											1					

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810188

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 4:05 pm, Oct 12, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810188

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810188-01	ICS-05-10	Soil	8082A
1810188-02	DUP-01	Soil	8082A
1810188-03	DUP-02	Soil	8082A
1810188-04	DUP-03	Soil	8082A
1810188-05	DUP-04	Soil	8082A
1810188-06	DUP-05	Soil	8082A
1810188-07	DUP-06	Soil	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810188

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810188

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-10 Date Sampled: 10/03/18 13:34 Percent Solids: 99 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810188 ESS Laboratory Sample ID: 1810188-01 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1260	0.2 (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 13:36		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-01 Date Sampled: 10/01/18 10:15 Percent Solids: 98 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810188 ESS Laboratory Sample ID: 1810188-02 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1260	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 13:55		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		54 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		54 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>79 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-02 Date Sampled: 10/01/18 11:55 Percent Solids: 98 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810188 ESS Laboratory Sample ID: 1810188-03 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1260	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 14:15		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-03 Date Sampled: 10/03/18 10:50 Percent Solids: 99 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810188 ESS Laboratory Sample ID: 1810188-04 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	<u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1260	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 14:34	CJ80912
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		70 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150			
Surrogate: Tetrachloro-m-xylene		64 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-04 Date Sampled: 10/01/18 11:15 Percent Solids: 97 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810188 ESS Laboratory Sample ID: 1810188-05 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1260	0.3 (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 14:53		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		57 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		63 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-05 Date Sampled: 10/02/18 09:28 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810188 ESS Laboratory Sample ID: 1810188-06 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1260	0.2 (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 15:12		CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 15:12		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		41 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		40 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-06 Date Sampled: 10/02/18 11:53 Percent Solids: 98 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810188 ESS Laboratory Sample ID: 1810188-07 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1260	0.3 (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 15:31		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810188

Quality Control Data

	. .			Spike	Source	0/550	%REC	000	RPD	0 ""
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ80912 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0199		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0184		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0180		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		110	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0211		mg/kg wet	0.02500		84	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	5	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		106	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0211		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0191		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xylene	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0198		mg/kg wet	0.02500		79	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810188

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810188

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: _ Shipped/Del 1. Air bill ma	Coneco Engir ivered Via: nifest preser	neers, <u>Scientis</u> Es	ts & Surv - K SS Courier	PB/TB/MM		ESS Proj Date Re Project Du Days for f 6. Does COC ma	iect ID: ceived: e Date: Project: atch bottles?	1810188 10/4/2018 10/12/2018 5 Day	3	Yes
Air No.: _ 2. Were cus 3. Is radiatio 4. Is a Coole Temp: _ 5. Was COO	tody seals pr n count <10 er Present? 3.2 C signed and	NA resent? 0 CPM? loed with: dated by clie		No Yes Yes Yes		7. Is COC comp 8. Were sample: 9. Were labs in 10. Were any a	lete and correct? s received intact? formed about <u>st</u> nalyses received	nort holds & ru outside of hold	ushes? time?	Yes Yes Yes / No (NA) Yes / (to
11. Any Sub ESS S 13. Are the a. If metals b. Low Leve Sample Rec	contracting r sample IDs: Analysis: TAT: samples pro preserved up VOA vials	perly preserv porn receipt: frozen:	Yes /	/ No Date: Date:		12. Were VOAs a. Air bubbles in b. Does methan Time: Time:	received? n aqueous VOAs? nol cover soil com	? pletely? By: By:		Yes / 🔞 Yes / No Yes / No / NA
14. Was th a. Was the Who was co	ere a need to re a need to ontacted?	contact Pro contact the c	iect Manage lient?	r? Date: _	Yes No Yes / No	Time:		Ву:		
Sample Number	Container 1D	Proper Container	Air Bubbles Present	Sufficient Volume	Contair	ner Type	Preservative	Rec	cord pH (Cya Pestici	nide and 608 des)
01 02 03 04 05 06 07	274622 274621 274620 274619 274618 274617 274616	Yes Yes Yes Yes Yes Yes Yes	NA NA NA NA NA NA	Yes Yes Yes Yes Yes Yes Yes	4 oz. Jai 4 oz. Jai 4 oz. Jai 4 oz. Jai 4 oz. Jai 4 oz. Jai 4 oz. Jai	Unpres Unpres Unpres Unpres Unpres Unpres Unpres	NP NP NP NP NP NP			

2nd Review Are barcode la Are all necess	abels on correct containers? ary stickers attached?	Yes No Yes / No	F (
Completed By:	-RAL	Date & Time:	10/4/18	2154	
Reviewed By:	All Al	Date & Time:		0	
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185 Fran	ces Avenue, C	ranston RI 029	10	Regulatory State	Rhode Island		Report	ang			PCB	s < 0.5 m	g/kg			
Tel. (401)	461-7181 Fa	ax (401) 461-44	86	ls th	his project for any of the foll	owing?:	Electo	nic [Limit Check	ker						
www.essi	aboratory.com	<u> </u>		OCT RCI	P @MAMCP (ORGP	Deliverables Other (Please			ise Specify	→)		PD	F		
	Coneco En	mpany Name Joineers and Sci	ienticts	Project #	Project N	lame				TT	ή Τ					—
	Co	ntact Person		<u></u>	Address	hornton Ave, Pawtucket RI	- ₁₀									
	City	Mark Zoller			4 First Street		lysi									
	Bridgewate	er	^s	MA	Zip Code	PO #	Ana									
	Telephone Nu	mber	FAX	Number	Email Add	iress	+	R								
ESSIA	508-697-31	91			jaevazalis, mzoller, klof	tus@coneco.com) S								ĺ
ID	Date	Time	Sample Type	Sample Matrix	Sa	mple ID	_	PCBS								
01	10/3/2018	1:34 p.m.	Grab	Solid	IC:	S-05-10		X								
2	10/1/18	10:15AM			Du	0-01		X						1+		-
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Co	ntainer Type:	AC-Air Cassette	a AG Amhor Clos		0.111.1											
Conta	iner Volume:	1-100 ml 2-2	2.5 gal 3-250 ml	4-300 ml 5 500	-Cubitainer G - Glass O-C	other P-Poly S-Steri	ile V-Vial	AG								
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNQ3 5-NaOH 6-Ma	111L 0-1L 7-VUA 8-2 02	2 9-4 02 10-8 02	11-Other*	9							_	
		/			Number	on sinate interaction	11-Other*		<u> </u>	<u> </u>	+ $+$.	┝┤┤		<u> </u>		
		Laboratory	Use Only		Sampled by : NRH/DJ	D/MJM	ampre.									-
Cooler	Present:				Comments:	Please spe	cify "Other	r" pres	ervative a	nd conta	iners typ	es in this	 space			-
Seals	Intact:				National G	Frid Project, Use Meeu	al Cavialat I									
Cooler Te	mperature: (.8+3.2 °	CICER	c	Hallohare	shar rojeci, ose manu	a Soxmet i	⊏xtracti	on per EP		1 3540, R	eport Dry V	Veight			
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810180

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 4:16 pm, Oct 12, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810180

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810180-01	ICS-01-41	Soil	8082A
1810180-02	ICS-01-42	Soil	8082A
1810180-03	ICS-01-43	Soil	8082A
1810180-04	ICS-01-44	Soil	8082A
1810180-05	ICS-02-01	Soil	8082A
1810180-06	ICS-02-02	Soil	8082A
1810180-07	ICS-02-03	Soil	8082A
1810180-08	ICS-02-04	Soil	8082A
1810180-09	ICS-02-05	Soil	8082A
1810180-10	ICS-02-06	Soil	8082A
1810180-11	ICS-02-07	Soil	8082A
1810180-12	ICS-02-08	Soil	8082A
1810180-13	ICS-02-09	Soil	8082A
1810180-14	ICS-02-10	Soil	8082A
1810180-15	ICS-02-11	Soil	8082A
1810180-16	ICS-02-12	Soil	8082A
1810180-17	ICS-02-13	Soil	8082A
1810180-18	ICS-02-14	Soil	8082A
1810180-19	ICS-02-15	Soil	8082A
1810180-20	ICS-03-01	Soil	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810180

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810180

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-41 Date Sampled: 10/01/18 12:20 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-01 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 17:30

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1260	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 12:43		CJ81012
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		37 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		36 %		30-150				
Surrogate: Tetrachloro-m-xylene		35 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		40 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-42 Date Sampled: 10/01/18 12:25 Percent Solids: 99 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-02 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequenc	e <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1254 [2C]	0.1 (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 12:18	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		75 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150			
Surrogate: Tetrachloro-m-xylene		79 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-43 Date Sampled: 10/01/18 12:30 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-03 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	e <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1254 [2C]	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 12:37	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		65 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150			
Surrogate: Tetrachloro-m-xylene		76 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-44 Date Sampled: 10/01/18 12:35 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-04 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequen	<u>ce</u> <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1260	0.3 (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 12:56	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 12:56	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		39 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		38 %		30-150			
Surrogate: Tetrachloro-m-xylene		70 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>75 %</i>		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-01 Date Sampled: 10/02/18 09:18 Percent Solids: 100 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-05 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1260	0.2 (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 13:15		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-02 Date Sampled: 10/02/18 09:28 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-06 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequen	<u>ce Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 13:35	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		69 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150			
Surrogate: Tetrachloro-m-xylene		71 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-03 Date Sampled: 10/02/18 09:40 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-07 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sequen	ce Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 13:54	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		66 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		62 %		30-150			
Surrogate: Tetrachloro-m-xylene		66 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-04 Date Sampled: 10/02/18 09:52 Percent Solids: 98 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-08 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1254 [2C]	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 14:13		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		57 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		59 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		58 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-05 Date Sampled: 10/02/18 10:02 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-09 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 14:32		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-06 Date Sampled: 10/02/18 10:22 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-10 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1260	0.5 (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 14:51		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>69 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-07 Date Sampled: 10/02/18 10:30 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-11 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed S	equence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1260	0.2 (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 15:11		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-08 Date Sampled: 10/02/18 10:32 Percent Solids: 99 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-12 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sec	uence <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 15:30	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		74 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150			
Surrogate: Tetrachloro-m-xylene		67 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-09 Date Sampled: 10/02/18 10:28 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-13 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequ	uence <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 15:49	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		86 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150			
Surrogate: Tetrachloro-m-xylene		84 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-10 Date Sampled: 10/02/18 10:20 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-14 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 16:08	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		56 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		54 %		30-150			
Surrogate: Tetrachloro-m-xylene		60 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-11 Date Sampled: 10/02/18 10:17 Percent Solids: 100 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-15 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	<u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 16:27	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		60 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150			
Surrogate: Tetrachloro-m-xylene		58 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		63 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-12 Date Sampled: 10/02/18 10:18 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-16 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sec	<u>uence</u> <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 16:46	CJ81011
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		72 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150			
Surrogate: Tetrachloro-m-xylene		73 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-13 Date Sampled: 10/02/18 10:06 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-17 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1254 [2C]	0.1 (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 17:06		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-14 Date Sampled: 10/02/18 10:02 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-18 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Se	quence B	atch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 19:39	Cl	J81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 19:39	Cl	J81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 19:39	CI	J81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 19:39	CI	J81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 19:39	CJ	J81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 19:39	CI	J81011
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/11/18 19:39	CI	J81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 19:39	Cl	J81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 19:39	C!	J81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-15 Date Sampled: 10/02/18 09:59 Percent Solids: 99 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-19 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1260	0.1 (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 19:58		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-01 Date Sampled: 10/02/18 11:36 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810180 ESS Laboratory Sample ID: 1810180-20 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/10/18 16:42

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1254	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1260	1.5 (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 20:17		CJ81011
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810180

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Oualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)		2			- Loomon
		,		. ,						
Batch CJ81011 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0206		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0191		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		100	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		110	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Surrogate: Decachlorobiphenvl	0.0208		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0190		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0211		mg/kg wet	0.02500		85	30-150			
Aroclor 1016	0.5	0.02	ma/ka wet	0.5000		99	40-140	0.7	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		100	40-140	0.7	30	
Aroclor 1260	0.5	0.02	mg/ka wet	0.5000		110	40-140	0.08	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140	0.2	30	
Surrogate: Decachlorohiphenyl	0.0208		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [20]	0.0190		mg/kg wet	0.02500		76	30-150			
Surrogate: DecachiorobipHellyI [2C]	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-vulene [20]	0.0209		mg/kg wet	0.02500		83	30-150			
			5. 5 -							
Batch CJ81012 - 3540C										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810180

Quality Control Data

Analista	D!#	MDI	11	Spike	Source		%REC	000	RPD	Qualifier
Andıyte	Kesuit	MKL	Units	Level	Result	%KEC	LIMITS	KPD	LIMIT	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ81012 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0259		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0201		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		96	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		99	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		97	40-140			
Surrogate: Decachlorobiphenvl	0.0254		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0201		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0215		mg/kg wet	0.02500		86	30-150			
Aroclor 1016	0.5	0.05	ma/ka wet	0.5000		92	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.05	mg/ka wet	0.5000		95	40-140	4	30	
Aroclor 1260	0.5	0.05	mg/ka wet	0.5000		94	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		95	40-140	2	30	
Surrogate: Decachlorobinhenvl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate' Decachlorobinhenvl [20]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0201		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0214		mg/kg wet	0.02500		85	30-150			
,										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810180

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§ 1 2 3 Avg NR	Subcontracted analysis; see attached report Range result excludes concentrations of surrogates and/or internal standards eluting in that range. Range result excludes concentrations of target analytes eluting in that range. Range result excludes the concentration of the C9-C10 aromatic range. Results reported as a mathematical average. No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810180

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID:	
Shipped/Delivered Via:ESS Courier	Project Due Date: 10/12/2018 Days for Project: 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4 Is a Cooler Present?	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No NA
Temp: <u>3.2</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes No
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / 🕅 Yes / No Yes / No / NA
13. Are the samples properly preserved? / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date: Sample Receiving Notes: Date:	Time: By: Time: By:	
14. Was there a need to contact Project Manager? Yes		
a. was there a need to contact the client? Date: Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274564	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274563	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274562	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274561	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274560	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
00	274550	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
00	274558	Ves	NA	Yes	4 oz. Jar - Unpres	NP	
07	274557	Ves	NA	Yes	4 oz. Jar - Unpres	NP	
08	274007	Voc	NΔ	Yes	4 oz. Jar - Unpres	NP	
09	274000	Von	NA	Yes	4 oz. Jar - Unpres	NP	
10	2/4000	Vee	NA	Vec	4 oz Jar - Unpres	NP	
11	274554	res		Ver	4 oz .lar - Unnres	NP	
12	274553	Yes		Vec	4 oz Jar - Unpres	NP	
13	274552	Yes	IN/A	Yes	4 oz lar - Unpres	NP	
14	274551	Yes	NA	Yes		NP	
15	274550	Yes	NA	res	4 bz. Jai - Onpres	ND	
16	274549	Yes	NA	Yes	4 oz. Jar - Unpres	ND	
17	274548	Yes	NA	Yes	4 oz. Jar - Unpres		
18	274547	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
19	274546	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
20	274545	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review

ant all a

STATES OF STREET, SALES

Are barcode labels on correct containers?



Client: Coneco Engineers, Scientists & Surv		ESS Project ID:	1810180	
Are all necessary stickers attached?	Yes /No	Date Received.		
	\bigcirc	. 1 1.		
By:	Date & Time:	<u> </u>	0210	<u> </u>
By:	Date & Time:	10418	1220	
Delivered By:	~ 10	418 2	770	
	v		-	

ESS Laboratory Sample and Cooler Receipt Checklist

ESS L	aboratory	/		C		Y	ESS Lab# (811)18D									
Division of	f Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush		Reporti	ng	t`			20 0 5	malka			
185 Franc	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island		Limits				FUE		пуку			
Tel. (401)	461-7181 Fa	x (401) 461-44	86	Is thi	is project for any of the follow	ving?:	Electonic Limit Checker			भ		□Star	ndard Exce	I		I
www.essla	aboratory.com			OCT RCP	Ома мср О	RGP	Deliverables Other (Please			e Specify →) PDF						
	Concore Env	npany Name	iantiete	Project #	Project Name Pawtucket 1 Control House 6 Thomton Ave. Pawfucket RI								ſ			
		ntact Person		3073.1	Address											
	٨	Aark Zoller			4 First Street		lysi									
	City	_	S	tate	Zip Code PO #								ſ			
	Bridgewate	n mher	FAX	//A Jumber	Email Addr		8									
'	508-697-31	91			jaevazalis, mzoller,kloftu		8 8 0									
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	iple ID		PCBs								
01	10/1/2018	12:20 p.m.	Grab	Solid	ICS	-01-41		x								
02	10/1/2018	12:25 p.m.	Grab	Solid	ICS	-01-42		x								
03	10/1/2018	12:30 p.m.	Grab	Solid	ICS	-01-43		х								
04	10/1/2018	12:35 p.m.	Grab	Solid	ICS	-01-44		х								
05	10/2/2018	9:18 a.m.	Grab	Solid	ICS		x									
06	10/2/2019	9:28 a.m.	Grab	Solid	ICS		x									
07	10/2/2020	9:40 a.m.	Grab	Solid	ICS	-02-03		X				_			\downarrow	
08	10/2/2021	9:52 a.m.	Grab	Solid	ICS	-02-04		X	<u> </u>						\perp	ļ
09	10/2/2022	10:02 a.m.	Grab	Solid	ICS	-02-05		×		\downarrow						
10	10/2/2023	10:22 a.m.	Grab	Solid	ICS	-02-06		X		\downarrow						
Ćo	ntainer Type:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle (C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	rile V-Vial	AG		╉┈┼╴					—	┟┈┝──┘
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 mL	. 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9	<u> </u>	+					<u> </u>	┟┈┽━┛
Prese	rvation Code:	1-Non Preserved	1 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaO	H 9-NH4CI 10-DI H2C) 11-Other*	1		┨					—	┢╌╌┠──╵
			·		Numbe	r of Containers per	Sample:	1								
		Laboratory	y Use Only		Sampled by : ACC/MJN	M/DCK										
Cooler	r Present:				Comments:	Please sp	ecify "Othe	er" pres	ervative a	nd con	tainers t	ypes in t	this spa)e		
Seal	s Intact:				National G	rid Project. Use Man	ual Soxhlet	Extracti	on ner EP	A Metho	od 3540.	Report D	Drv Weic	ht		
Cooler T	emperature:	1.8+3.2	°CICE RO	<u> </u>	Halonare		uur ooxiiio.	Enden	on po. 2.	-	1					
Re	elinquished by:	(Signature, Da	ite & Time)	Received By:	(Signature, Date & Time)	Relinquished By	: (Signature	, Date 8	Time)	TT	Receiv	ed By: (S	ignature	, Date a	<u>k</u> Time	e)
Pau Falon 10/4/18 12:30 p.m. ROUS				5 10/4/18 1330	R.Cali	اه، ک	4/18	1545		N	~ 1	1-1	18:	\mathcal{A}	\Box	
Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time)				(Signature, Date & Time)	Relinquished By	hed By: (Signature, Date & Time) Received By: (Signature, Date & Time)										

UM-

ESS L	.aborator	y		C	CHAIN OF CUSTOD	Υ	ESS Lab # (810(80)							٦				
Division o	f Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush		Report	ina		<u>V</u>								
185 Franc	æs Avenue, Ci	anston RI 029	10	Regulatory State	Rhode Island		Limit	s				PCBs < 0.5 mg/kg						
Tel. (401)	461-7181 Fa	x (401) 461-44	86	Is th	is project for any of the follow	ring?:	Elector	Electonic Limit Checker					Excel					
www.essla	aboratory.com	mnany Namo		OCT RCF	P - OMA-MEP (Ac) OR	GP	Delivera	DeliverablesOther (Please Specify →)						10				
	Coneco En	gineers and Sc	ientists	5675.F	Project Name Pawtucket 1 Control House, 6 Thornton Ave.													
	Co	ntact Person			Address													
	City	Mark Zoller	s	l	4 First Street	PO #	alys											
	Bridgewate	er		MA	02324 5675.F			İ.										
	FOR 607 21	mber	FAX I	lumber	Email Addre	SS	1	082										
ESS Lab	Collection	Collection	· · · · · · · · · · · · · · · · · · ·		jaevazalis, mzolier, kionus	@coneco.com		8 8										
ID	Date	Time	Sample Type	Sample Matrix	Samp		DG							1				
11	10/2/2018	10:30 a.m.	Grab	Solid	ICS-0	02-07		х								1.		
12	10/2/2018	10:32 a.m.	Grab	Solid	ICS-0)2-08		X										
13	10/2/2018	10:28 a.m.	Grab	Solid	ICS-0)2-09		X										
14	10/2/2018	10:20 a.m.	Grab	Solid	ICS-0)2-10		X										
15	10/2/2018	10:17 a.m.	Grab	Solid	ICS-0		Х											
16	10/2/2018	10:18a.m.	Grab	Solid	ICS-0		x											
17	10/2/2018	10:06 a.m.	Grab	Solid	ICS-0		x											
18	10/2/2018	10:02 a.m.	Grab	Solid	ICS-0)2-14		X										
19	10/2/2018	9:59 a.m.	Grab	Solid	ICS-0	02-15		х										
20	10/2/2018	11:36 a.m.	Grab	Solid	ICS-0	03-01		х										
Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer J-Jar O-Othe	er P-Poly S-Ste	rile V-Vial	AG										
Conta	iner Volume:	1-100 mL 2-	-2.5 gal 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9										
Preser	vation Code:	1-Non Preserved	1 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	MeOH 7-Na2S2O3 8-ZnAce, NaOH	9-NH4CI 10-DI H2O	11-Other*	1								_		
		1			Number	of Containers per	Sample:	1							.			
		Laboratory	Use Only		Sampled by : NRH/DJD/N	1JM												
Cooler	Present:				Comments:	Please sp	ecify "Othe	r" pr	erva	tive ar	d cont	ainers	types i	n this s	space			
Seals	s Intact:				National Grid Project, Use Mani	ual Soxhlet Extraction	on per EPA	Meth	od 354	l0, Rep	ort Dry	Weight						
Cooler Te	emperature:	1.8+3.2	°ILE RO	<u> </u>														
Re	linquished by:	(Signature, Da	te & Time)	Received By: (Signature, Date & Time)	Relinquished By:	: (Signature	, Date	e & Tim	ne)	7	Receiv	ed By:	(Signa	ture, D	Date &	Time)	
Dui	Flor	en 10/c	1/18 12:30	. 2. Carlos	5 10/4/18 1330	2 Culus	10/4/1	81	sч	s	\Box	VL	_ <i>l</i>	alul	18	<i>X</i> l)	
Re	Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished By:				Relinquished By:	hed By: (Signature, Date & Time) Received By: (Signature, Date & Time)												



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810189

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:29 pm, Oct 15, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810189

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810189-01	ICS-03-02	Solid	8082A
1810189-02	ICS-03-03	Solid	8082A
1810189-03	ICS-03-04	Solid	8082A
1810189-04	ICS-03-05	Solid	8082A
1810189-05	ICS-03-06	Solid	8082A
1810189-06	ICS-03-07	Solid	8082A
1810189-07	ICS-03-08	Solid	8082A
1810189-08	ICS-03-09	Solid	8082A
1810189-09	ICS-03-10	Solid	8082A
1810189-10	ICS-03-11	Solid	8082A
1810189-11	ICS-03-12	Solid	8082A
1810189-12	ICS-03-13	Solid	8082A
1810189-13	ICS-03-14	Solid	8082A
1810189-14	ICS-03-15	Solid	8082A
1810189-15	ICS-03-16	Solid	8082A
1810189-16	ICS-03-17	Solid	8082A
1810189-17	ICS-03-18	Solid	8082A
1810189-18	ICS-04-01	Solid	8082A
1810189-19	ICS-04-02	Solid	8082A
1810189-20	ICS-04-03	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810189

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810189

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-02 Date Sampled: 10/02/18 11:31 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-01 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sequer	ice Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1254 [2C]	1.4 (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1260	1.2 (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 15:24	CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 15:24	CJ81107
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		70 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150			
Surrogate: Tetrachloro-m-xylene		80 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-03 Date Sampled: 10/02/18 11:29 Percent Solids: 100 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-02 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sector	equence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1254 [2C]	0.7 (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1260	0.9 (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 15:43		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 15:43		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>93 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-04 Date Sampled: 10/02/18 11:25 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-03 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1254	1.2 (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1260	1.0 (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 16:02		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 16:02		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		64 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>59 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>89 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-05 Date Sampled: 10/02/18 11:22 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-04 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sequ	ience Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1260	0.5 (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 16:21	CJ81107
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		85 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150			
Surrogate: Tetrachloro-m-xylene		83 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-06 Date Sampled: 10/02/18 11:31 Percent Solids: 99 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-05 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Se	equence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1260	0.7 (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 18:55		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-07 Date Sampled: 10/02/18 11:37 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-06 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sequer	ice Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1260	0.4 (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 19:14	CJ81107
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		84 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150			
Surrogate: Tetrachloro-m-xylene		83 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-08 Date Sampled: 10/02/18 11:44 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-07 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1260	0.2 (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 19:33		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-09 Date Sampled: 10/02/18 11:52 Percent Solids: 100 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-08 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1260	0.2 (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 19:52		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-10 Date Sampled: 10/02/18 11:59 Percent Solids: 100 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-09 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1260	0.2 (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 20:11		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-11 Date Sampled: 10/02/18 12:01 Percent Solids: 100 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-10 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1260	0.2 (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 20:30		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>93 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-12 Date Sampled: 10/02/18 12:07 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-11 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 20:49		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-13 Date Sampled: 10/02/18 12:03 Percent Solids: 100 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-12 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1260	0.2 (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 21:09		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-14 Date Sampled: 10/02/18 12:09 Percent Solids: 100 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-13 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sequ	uence <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 21:28	CJ81107
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		86 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150			
Surrogate: Tetrachloro-m-xylene		81 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-15 Date Sampled: 10/02/18 11:42 Percent Solids: 100 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-14 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1260	0.3 (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 21:47		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-16 Date Sampled: 10/02/18 11:45 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-15 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1260	0.5 (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 22:06		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		47 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		49 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>75 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-17 Date Sampled: 10/02/18 11:48 Percent Solids: 100 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-16 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sequer	ice Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1260	0.1 (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 22:25	CJ81107
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		86 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150			
Surrogate: Tetrachloro-m-xylene		82 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-18 Date Sampled: 10/02/18 11:53 Percent Solids: 98 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-17 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sec	quence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1260	0.3 (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 22:44		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-01 Date Sampled: 10/03/18 11:54 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-18 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1260	1.0 (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 23:03		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-02 Date Sampled: 10/03/18 11:55 Percent Solids: 100 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-19 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1260	0.1 (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 23:23		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-03 Date Sampled: 10/03/18 11:56 Percent Solids: 99 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810189 ESS Laboratory Sample ID: 1810189-20 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1254	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 23:42		CJ81107
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810189

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ81107 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0194		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene	0.0194		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0211		mg/kg wet	0.02500		84	30-150			
LCS										
Aroclor 1016	0.6	0.02	mg/kg wet	0.5000		112	40-140			
Aroclor 1016 [2C]	0.6	0.02	mg/kg wet	0.5000		111	40-140			
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		121	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		108	40-140			
Surrogate: Decachlorobiphenyl	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0214		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0222		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0226		mg/kg wet	0.02500		91	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		107	40-140	5	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		109	40-140	1	30	
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		119	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		106	40-140	2	30	
Surrogate: Decachlorobiphenyl	0.0232		mg/kg wet	0.02500		<i>93</i>	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		89	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810189

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810189

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx
ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID:1810189 Date Received:10/4/2018	
Shipped/Delivered Via: ESS Courier	Project Due Date: 10/12/2018 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No NA
Temp: <u>3.2</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes / No
11. Any Subcontracting needed? Yes / 😡 ESS Sample IDs: Analysis:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? (e) / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date: Sample Receiving Notes: Date:	Time: By: Time: By:	
14. Was there a need to contact Project Manager? Yes / N a. Was there a need to contact the client? Yes / N Who was contacted? Date:) o Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274642	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274641	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274640	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	274639	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274638	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	274637	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	274636	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	274635	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
00	274634	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	274633	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	274632	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	274631	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	274630	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	274620	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	274628	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	274627	Vee	NA	Yes	4 oz. Jar - Unpres	NP	
10	274027	Ves	ΝΔ	Yes	4 oz. Jar - Unpres	NP	
10	274020	Vee	NΔ	Yes	4 oz. Jar - Unpres	NP	
18	2/4020	Vee	NA NA	Ves	4 oz Jar - Unpres	NP	
19 20	274623	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review

Are barcode labels on correct containers?



ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM		ESS Project ID:	1810189
	-	Date Received:	10/4/2018
Are all necessary stickers attached?	Yes / No		
Completed By: Reviewed By: Delivered	Date & Time:	10/4/8 10/4/8	ARY ARIS
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ESS L	aboratory			C	HAIN OF CUSTOD	Y	ESS Lab	#	i	2101	89					
Division of	Thielsch Engi	neering, Inc.		Turn Time	5-Day Rush	· ·	Reportin	ng			PCI	3s < 0.5 r	na/ka			
185 France	es Avenue, Cra	anston RI 0291	0	Regulatory State	Rhode Island		Limits									
Tel. (401)	461-7181 Fax	(401) 461-448	36	ls thi	s project for any of the follow	ring?:	Electonic Limit Checke			ker	er [Standard Excel					
www.essla	boratory.com			OCT RCP	-OMA-MER- OF	*GP	Deliverat	les	/Other (Pie	ase Specify	′ ->) 	·····	-r r	-1Ur	тт	
	Conoco Eng	pany Name	ontiete	Project #	Project Nan Pawtucket 1 Control House, 6 Thon	ne nton Ave, Pawtucket RI			11							
	Coneco Eng	itact Person	Chiloto		Address		ŝi									
	N	lark Zoller			4 First Street											
	City		SI	tate 1A	Zip Code PO # 02324 5675 F											
T	elephone Nur	nber	FAX N	lumber	Email Addre		082									
	508-697-319)1	· · · ·	· · · · · · · · · · · · · · · · · · ·	jaevazalis, mzoller,kloftus	s@coneco.com	.l	3s 8								
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID		E D d		14	_		_		\downarrow	
01	10/2/2018	11:31 a.m.	Grab	Solid	ICS-	03-02		X							+	
02	10/2/2018	11:29 a.m.	Grab	Solid	ICS-	03-03		х		_ _					\downarrow	
03	10/2/2018	11:25 a.m.	Grab	Solid	ICS-	03-04		X				_	_		╇	
04	10/2/2018	11:22 a.m.	Grab	Solid	ICS-		X							+		
05	10/2/2018	11:31 a.m.	Grab	Solid	ICS-		х				_	+		\downarrow		
06	10/2/2018	11:37 a.m.	Grab	Solid	ICS-		х	_						┦┥		
07	10/2/2018	11:44 a.m.	Grab	Solid	ICS-	03-08		x							╧	
08	10/2/2018	11:52 a.m.	Grab	Solid	ICS-	03-09		x					-		┼┈┥	
09	10/2/2018	11:59 a.m.	Grab	Solid	ICS-	03-10		×		_					┢	
10	10/2/2018	12:01 p.m.	Grab	Solid	ICS-	03-11		X			_				+	
Co	ntainer Type:	AC-Air Casset	tte AG-Amber Glas	s B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	erile V-Vial	AG				<u> </u>			┿┈┼	
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 ml	_ 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9	_					_	┼╌╃	
Prese	rvation Code:	1-Non Preserved	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	lethanol 7-Na2S2O3 8-ZnAce NaO	H 9-NH4CI 10-DI H20	O 11-Other*								++	
		/	<u> </u>				Sample:		_ _	1		<u> </u>			<u> </u>	<u></u>
		Laborator	y Use Only		Sampled by : NRH/DJL								hio onoo			
Coole	r Present:		_		Comments:	Please sp	becify "Othe	er" pre	servative	e and co	ntainers	types in i	ms spac	e		
Seal	s Intact:	•			National G	irid Project, Use Mar	nual Soxhlet	Extra	ction per l	EPA Met	hod 3540), Report D	Ory Weigl	nt		
Cooler T	emperature:	1.8+3.2	°CILE R	C												
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	y: (Signature	, Date	& Time)			ved By: (S	Signature	Date 8	. Time)
Dun.	Man	/ 10/4/1	18 12:30 p.n.	RCal	$\leq 10 4 18 330$	R. Oalin	510/4	18	1545	· \	N	\sim	ıøfyl	<u> 8</u>	247	
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinguished By	hed By: (Signature, Date & Time) Received By: (Signature, Date & Time)				/					
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ESS L	aborator	у		C	CHAIN OF CUSTO	Y	ESS La	b#		(8	(nK	29		-		<u> </u>	
Division o	f Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush		Report	ina		(Ç		2					
185 Franc	es Avenue, C	ranston RI 029	10	Regulatory State	Rhode Island		Limit	S			PCBs < 0.5 mg/kg						
Tel. (401)	461-7181 Fa	ix (401) 461-44	86	Is th	is project for any of the follow	wing?:	Electonic Limit Checker			hecker	ker Excel						
www.essia	aboratory.com			OCT RCF		RGP	Delivera	Deliverables								ſ	
	Corooo En	mpany Name	landista	Project #	Project Name			T		ÌΤ	<u> </u>						
	Coneco En	gineers and Sc ntact Person		5675.F	Pawtucket 1 Control House	e, 6 Thornton Ave,											
		Mark Zoller			4 First Street		/sis										
	City		S	tate	Zip Code	PO #	La L										1
	elephone Nu	mher	EAX	VIA Vumber	02324	_							1 1				
	508-697-31	91		TUILDOI	iaevazalis, mzoller,kloftu	ess s@coneco.com		80									
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID		CBs									
11	10/2/2018	12:07 p.m.	Grab	Solid	ICS-	03-12		X						++-		i	
12	10/2/2018	12:03 p.m.	Grab	Solid	ICS-	-03-13		X									
13	10/2/2018	12:09 p.m.	Grab	Solid	ICS-	03-14		x			+						+
14	10/2/2018	11:42 a.m.	Grab	Solid	ICS-	03-15		x		╞╌╎				1			
15	10/2/2018	11:45 a.m.	Grab	Solid	ICS-		x						╡┈┟╴			\dashv	
16	10/2/2018	11:48 a.m.	Grab	Solid	ICS-		х										
17	10/2/2018	11:53 a.m.	Grab	Solid	ICS-		x										
18	10/3/2018	11:54 a.m.	Grab	Solid	ICS-	04-01		x									
19	10/3/2018	11:55 a.m.	Grab	Solid	ICS-	04-02		х									
20	10/3/2018	11:56 a.m.	Grab	Solid	ICS-	04-03		Х									
Col	ntainer Type:	AC-Air Casset	te AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer J-Jar O-Oth	er P-Poly S-Ste	rile V-Vial	AG									
Conta	iner Volume:	1-100 mL 2-	2.5 gal 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9									
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	MeOH 7-Na2S2O3 8-ZnAce, NaOH	9-NH4CI 10-DI H2O	11-Other*	1									
	· · · ·	<u> </u>			Number	of Containers per	Sample:	1									
		Laboratory	Use Only		Sampled by : NRH/DJD/M	MJM											
Cooler	Present:				Comments:	Please spe	cify "Other	" pre:	servativ	ve and	contai	ners typ	es in thi	s space			
Seals	Intact:	•			National Grid Project Lise Man	wal Sovhlet Extractiv		Matha	4 2540	Done	4	/+:-b/					
Cooler Te	mperature: 1	8+32	°CT/FZ(riational ond i rojeci, ose Man			weino	u 3040,	, Repoi		eignt					
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Julin	Mank-	<u>/////////////////////////////////////</u>	<u>8 12:30 p.m.</u>	P Carlin	alin 10/4/18 1330 7. Calins					5		1th	104	15	Æ	1	
				Received By: (Signature, Date & Time)	Relinquished By:	(Signature,	Date	& Lime)	<u> </u>	R	eceived	By: (Sigr	nature, D	Date & T	ime)	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810190

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 5:56 pm, Oct 16, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810190

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810190-01	ICS-04-04	Solid	8082A
1810190-02	ICS-04-05	Solid	8082A
1810190-03	ICS-04-06	Solid	8082A
1810190-04	ICS-04-07	Solid	8082A
1810190-05	ICS-04-08	Solid	8082A
1810190-06	ICS-04-09	Solid	8082A
1810190-07	ICS-04-10	Solid	8082A
1810190-08	ICS-04-11	Solid	8082A
1810190-09	ICS-04-12	Solid	8082A
1810190-10	ICS-04-13	Solid	8082A
1810190-11	ICS-04-14	Solid	8082A
1810190-12	ICS-05-01	Solid	8082A
1810190-13	ICS-05-02	Solid	8082A
1810190-14	ICS-05-03	Solid	8082A
1810190-15	ICS-05-04	Solid	8082A
1810190-16	ICS-05-05	Solid	8082A
1810190-17	ICS-05-06	Solid	8082A
1810190-18	ICS-05-07	Solid	8082A
1810190-19	ICS-05-08	Solid	8082A
1810190-20	ICS-05-09	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810190

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810190

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-04 Date Sampled: 10/03/18 10:56 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-01 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyzed Sector	equence Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 19:50	CJ81208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		58 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		57 %		30-150			
Surrogate: Tetrachloro-m-xylene		48 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		56 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-05 Date Sampled: 10/03/18 10:57 Percent Solids: 100 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-02 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 20:10		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-06 Date Sampled: 10/03/18 10:58 Percent Solids: 99 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-03 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Sector	equence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 20:29		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-07 Date Sampled: 10/03/18 10:59 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-04 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	<u>Batch</u>
Aroclor 1010	ND(0.1)		8082A		1	10/15/18 20:48	CI81208
Aroclor 1222	ND (0.1)		8082A		1	10/15/18 20:48	CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 20:48	CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 20:48	CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 20:48	CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 20:48	CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 20:48	CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 20:48	CJ81208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		86 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150			
Surrogate: Tetrachloro-m-xylene		76 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-08 Date Sampled: 10/03/18 11:01 Percent Solids: 100 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-05 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 21:07		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-09 Date Sampled: 10/03/18 11:02 Percent Solids: 100 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-06 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 21:26		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-10 Date Sampled: 10/03/18 11:21 Percent Solids: 99 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-07 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 21:45		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		91 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-11 Date Sampled: 10/03/18 11:22 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-08 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 22:05		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-12 Date Sampled: 10/03/18 11:10 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-09 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 22:24		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		93 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-13 Date Sampled: 10/03/18 10:55 Percent Solids: 100 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-10 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

<u>Analyte</u>	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 22:43		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>89 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-14 Date Sampled: 10/03/18 10:50 Percent Solids: 100 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-11 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sec	quence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 23:02		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-01 Date Sampled: 10/03/18 13:09 Percent Solids: 100 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-12 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1260 [2C]	0.1 (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 23:21		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-02 Date Sampled: 10/03/18 13:15 Percent Solids: 100 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-13 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1260	0.4 (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/15/18 23:40		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>96 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-03 Date Sampled: 10/03/18 13:16 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-14 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1260	0.5 (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/16/18 0:00		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-04 Date Sampled: 10/03/18 13:17 Percent Solids: 100 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-15 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1260	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/16/18 0:19		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-05 Date Sampled: 10/03/18 13:18 Percent Solids: 100 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-16 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1260	0.2 (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/16/18 0:38		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>92 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-06 Date Sampled: 10/03/18 13:29 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-17 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1260 [2C]	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/16/18 0:57		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>93 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-07 Date Sampled: 10/03/18 13:32 Percent Solids: 100 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-18 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Se	equence Batch
Aroclor 1016	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/16/18 1:16	CJ81208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		80 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150			
Surrogate: Tetrachloro-m-xylene		80 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-08 Date Sampled: 10/03/18 13:44 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-19 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1260	0.3 (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/16/18 3:49		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-09 Date Sampled: 10/03/18 13:31 Percent Solids: 100 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810190 ESS Laboratory Sample ID: 1810190-20 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 10/12/18 18:37

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Second	equence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1221	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1232	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1242	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1248	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1254	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1260	0.3 (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1262	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
Aroclor 1268	ND (0.1)		8082A		1	10/16/18 4:08		CJ81208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810190

Quality Control Data

	. .			Spike	Source	0/ 5=0	%REC		RPD	0 ""
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ81208 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0201		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0201		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0185		mg/kg wet	0.02500		74	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0175		mg/kg wet	0.02500		70	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0180		mg/kg wet	0.02500		72	30-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		83	40-140	6	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		80	40-140	5	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		92	40-140	6	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	6	30	
Surrogate: Decachlorobiphenyl	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0204		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0164		mg/kg wet	0.02500		66	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0170		mg/kg wet	0.02500		68	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810190

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
8	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810190

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1810190	
Shipped/Delivered Via: ESS Courier	Date Received: 10/4/2018 Project Due Date: 10/12/2018 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM?	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No NA
5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time?	Yes No
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes a. Was there a need to contact the client? Yes Who was contacted? Date:	S (No No Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274662	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274661	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274660	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	274659	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274658	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	274657	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	274656	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	274655	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	274654	Yes	NA	Yes	4 oz. Jar - Uppres	NP	
10	274653	Yes	NA	Yes	4 oz Jar - Unores	NP	
11	274652	Yes	NA	Yes	4 oz. Jar - Unnres	NP	
12	274651	Yes	NA	Yes	4 oz. Jar - Unnres	NP	
13	274650	Yes	NA	Yes	4 oz. Jar - Unpres	ND	
14	274649	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	274648	Yes	NA	Yes	4 oz. Jar - Unnres	ND	
16	274647	Yes	NA	Yes	4 oz. Jar - Unpres	ND	
17	274646	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	274645	Yes	NA	Yes	4 oz Jar - Linnres	NP	
19	274644	Yes	NA	Yes	4 oz Jar - Unnres		
20	274643	Yes	NA	Yes	4 oz. Jar - Unpres	NP	



ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM		ESS Project ID:	1810190	
Are all necessary stickers attached?	Yes / No	Date Received:	10/4/2018	
Completed	Date & Time:	10/4/18	970G	
By:	Date & Time:	10/4/18	2213	
By:	10	4/18 2	2213	
Y		• 1	•	

ESS L	aborator	у		C	CHAIN OF CU	STODY		ESS La	ıb #		40		10 .		<u> </u>			<u> </u>		
Division o	of Thielsch Eng	jineering, Inc.		Turn Time	5-Dav	Rush		Banant			_[3	510	<u>190</u>)						
185 Franc	ces Avenue, C	ranston RI 029	910	Regulatory State	Rhode Island	-raon		Limit	mg s			PCBs < 0.5 mg/kg								
Tel. (401)	461-7181 Fa	ax (401) 461-44	486	Is th	is project for any of t	the following	?:	Electo	nic	Limi	it Checker									
www.ess	aboratory.com	mmmme Name						Delivera	bles		er (Pleas	e Specify	'→)		PDF					
	Coneco En	mpany Name gineers and So	cientists	Project #	Pr	oject Name						ΤŤ							<u> </u>	
	Co	ntact Person			Address															
	City	Mark Zoller			4 First Stree	et		lysi												
	Bridgewate	ər	5	tate MA	Zip Code PO #			Ana												
	Telephone Nu	mber	FAX	Number	Em	ail Address	070.P		8		[
ESS Lab	508-697-31	91		<u></u>	jaevazalis, mzo	iler.kloftus@c	oneco.com													
ID	Date	Time	Sample Type	Sample Matrix		Sample I	D		PCBS											
01	10/3/2018	10:56 a.m.	Grab	Solid		ICS-04-0	4		X											
02	10/3/2018	10:57 a.m.	Grab	Solid		ICS-04-0	5		X						+		1			
03	10/3/2018	10:58 a.m.	Grab	Solid	ICS-04-05															
04	10/3/2018	10:59 a.m.	Grab	Solid			X						+ +			+ -				
05	10/3/2018	11:01 a.m.	Grab	Solid		ICS-04-0	8		x		-				┤╶┼			┽┤		
06	10/3/2018	11:02 a.m.	Grab	Solid	ICS-04-09				x				╶╃╾┟		<u>+</u> +-	┤╼╉		┥┦	-	
07	10/3/2018	11:21 a.m.	Grab	Solid		ICS-04-10	0	• <u>• • • • • • •</u>	x	_			┤╼┦		+ +-	++		┼╾┦		
08	10/3/2018	11:21 a.m.	Grab Grab	Solid		ICS-04-1	1		x	-			┤─╀		+	+++		┼─┤	-	
09	10/3/2018	11:10 a.m.	Grab	Solid		ICS-04-12	2		x				┤╶┽		+ +-			+	-	
10	10/3/2018	10:55 a.m.	Grab	Solid		ICS-04-13			x				+			+	-	╀╼╉		
Cor	ntainer Type:	AC-Air Casset	te AG-Amber Glass	s B-BOD Bottle C	-Cubitainer G - Glas	s O-Other	P-Poly S-Ster	ile V-Vial	AG				╉╌┼╸		╄━╋╴	╈		╌┼╌╌┽	{	
Conta	iner Volume:	1-100 mL 2-	-2.5 gal 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA	8-2 oz 9-4	oz 10-8 oz	11-Other*	9	-			+ +		┼━┥─		_ 	┼╌╋		
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4 4	-HNO3 5-NaOH 6-Me	thanol 7-Na2S2O3 8-Zr	nAce, NaOH 9-1	NH4CI 10-DI H2O	11-Other*	1							++		┿┼		
						Number of C	ontainers per S	Sample:	1									+-+		
		Laboratory	/ Use Only		Sampled by : NF	RH/DJD/MJN	Λ							I,	J	<u> "</u>				
Cooler	Present:				Comments:		Please spe	cify "Other	" pre	serva	tive an	d cont	ainers t	ypes in	i this sp	ace				
o i m	imaci: -		-		Na	tional Grid Pro	oject, Use Manu	al Soxhlet I	Extrac	tion p	er EPA	Metho	d 3540.	Report	Drv We	iaht				
Cooler Temperature: 1.8+3.2°CICEPC																				
Rei	inquished by:	(Signature, Dat	te & Time)	Received By: (S	Signature, Date & Time	e) R	elinquished By:	(Signature,	Date	& Tim	e)		Receiv	ed By: (Signatu	re, Date	& Tim	e)	-	
Dum	-5um	m 10	14/18 12:3020	RCal	510/4/1813.	50 7	Cali	510/4/	181	154	15				Rul	<u>_</u>	ר <i>ו</i> ו			
Rel	nquished by: (Signature, Dát	te & Time) /	Received By: (S	Signature, Date & Time	e) R	elinquished By:	(Signature,	Date	& Tim	e)		Receive	ed By: (Signatu	re, Date	& Tim	e)		
										_			V							

ESS Laboratory					CHAIN OF CUSTODY				$ESS Lab # i \Sigma(a) Lo a$									— <u>—</u> ——
Division o	of Thielsch Eng	gineering, Inc.		Turn Time	5-Day Rush					{	<u> 210</u>	<u>190</u>)				_	
185 Fran	ces Avenue, C	ranston RI 029	10	Regulatory State	Rhode Island		Limi	ang ts				PC	CBs < i	D.5 mg/	/kg			
Tel. (401) www.essl	461-7181 Fa	ex (401) 461-44	186		his project for any of the follo	wing?:	Electo	nic	Limi	Checker								
	Co	mpany Name		Project #)RGP	Delivera	bles	[]Othe	r (Please	Specify -) (XPF					
	Coneco En	gineers and Sc	ientists	5675.F	Project Na Pawtucket 1 Control Hous	ame e, 6 Thornton Ave.										T		
		Mark Zoller			Address	<u>.</u> .												
	City		5	State	Zip Code	alys												
	Bridgewate Felephone Nu	mber	FAX	MA Number	02324	5675.F	Ā											
	508-697-31	91			jaevazalis, mzoller,kloftu	ress Js@coneco.com		082										
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	San	nple ID	I	CBs										
11	10/3/2018	10:50 a.m.	Grab	Solid	ICS	-04-14		X		┥┥		┼─┤		╆┾	-	+	┞─┽	-+
12	10/3/2018	1:09 pm.	Grab	Solid	ICS	-05-01		t _x	_	┥┥		┼━╌╎		╅┼		+	┝╌┽	_ +
13	10/3/2018	1:15 p.m.	Grab	Solid	ICS	-05-02		x		┥┩	-+-	+		┽┼			⊢┥	
14	10/3/2018	1:16 p.m.	Grab	Solid	ICS-	-05-03				╅╌╏	-	╉╋	+	┼━╌╀╴		╉─┥		
15	10/3/2018	1:17 a.m.	Grab	Solid	ICS-	05-04		x		┿┼		┥┽		┼╾┼	_	+		
16	10/3/2018	1:18 p.m.	Grab	Solid	ICS-		×		╉╌┟	-	┦╺╉	-+-	┼╌┼╴	_	┥─┥	-+-		
17	10/3/2018	1:29 p.m.	Grab	Solid	ICS-		x		┦━┼		╀┼		+	+	┾╌┦	-+-		
18	10/3/2018	1:32 p.m.	Grab	Solid	ICS-	05-07		x		╀━┼		╞┼┝		+	_	┢	-+-	
19	10/3/2018	1:44 p.m.	Grab	Solid		05-08		x		┼━┼		+		+	-	$\left\{ - \right\}$	_	
20	10/3/2018	1:31 p.m.	Grab	Solid	ICS-0	05-09		x		┼┼		┼─┼		+ $+$		╞╼┽	+	-+
Con	tainer Type:	AC-Air Cassette	e AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer J-Jar O-Oth	er P-Poly S-Steril	e V-Vial	AG		┥╶╀				┢╴┟╸		\vdash	-+	
Proport	ner Volume:	1-100 mL 2-2	2.5 gal 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9		┼┼		┤─┤	+	┼╌┼╴		┢╌┥	_ 	
Freserv		1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	leOH 7-Na2S2O3 8-ZnAce, NaOH	9-NH4CI 10-DI H2O	11-Other*	1	-+	<u>+</u>		╞┈╞╴			+	┝─┼		-
		Laboratory			Number	of Containers per Sa	ample:	1							┿┤	├ ─┼		
Cooler i	Present.	Laboratory	Use Only		Sampled by : NRH/DJD/N	ИJМ								·		f		
Sonic	Intact:				Comments:	Please spec	ify "Other	" pres	servati	ve and	contai	ners ty	/pes in	this sp	ace			
Cooler Ter	mperature:	8+3.2 °	CTLEDC	i	National Grid Project, Use Man	ual Soxhlet Extraction	per EPA N	Netho	d 3540	, Repo	rt Dry W	/eight						
Reli	nquished by: (Signature, Date	& Time)	- Received By: (5	Signature Date & Time)	Deline televite												
Dinila	Pierte n	- iplylic	12.7.2	20015	Relinquished By: (Signature, Date & Time)													
Reli	iquished by: (S	Signature, Date	& Time)	Received By: (S	3y: (Signature, Date & Time) Relinguished By: (Signature, Date & Time)													
						terriquined by (t	-gnature, I	Dale (× 1 me	<u>'</u>	R		ed By: (Signatu	re, Dat	e & Ti	me)	
												v						


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1811012

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:39 pm, Nov 08, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811012

SAMPLE RECEIPT

The following samples were received on November 01, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1811012-01	ICS-01-52	Solid	8082A
1811012-02	DUP-07	Solid	8082A
1811012-03	ICS-01-53	Solid	8082A
1811012-04	ICS-01-54	Solid	8082A
1811012-05	ICS-01-55	Solid	8082A
1811012-06	ICS-01-56	Solid	8082A
1811012-07	ICS-01-57	Solid	8082A
1811012-08	ICS-01-58	Solid	8082A
1811012-09	ICS-01-59	Solid	8082A
1811012-10	ICS-03-19	Solid	8082A
1811012-11	ICS-03-20	Solid	8082A
1811012-12	ICS-03-21	Solid	8082A
1811012-13	ICS-04-15	Solid	8082A
1811012-14	ICS-04-16	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811012

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1811012-01	Lower value is used due to matrix interferences (LC).
	Aroclor 1260
1811012-01	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1260
1811012-08	Lower value is used due to matrix interferences (LC).
	Aroclor 1260
1811012-08	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1260

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811012

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-52 Date Sampled: 10/31/18 11:00 Percent Solids: 100 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-01 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> <u>Sec</u>	equence Batch
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 1:19	CK80208 CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 1:19	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 1:19	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 1:19	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 1:19	CK80208
Aroclor 1260	LC, P 0.1 (0.1)		8082A		1	11/06/18 1:19	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 1:19	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 1:19	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		87 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150			
Surrogate: Tetrachloro-m-xylene		93 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		106 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-07 Date Sampled: 10/31/18 11:00 Percent Solids: 100 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-02 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> <u>Sequence</u> 11/06/18 1:39	e <u>Batch</u> CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 1:39	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 1:39	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 1:39	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 1:39	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 1:39	CK80208
Aroclor 1260 [2C]	0.1 (0.1)		8082A		1	11/06/18 1:39	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 1:39	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 1:39	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		84 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150			
Surrogate: Tetrachloro-m-xylene		97 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		112 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-53 Date Sampled: 10/31/18 10:23 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-03 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	Batch CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 1:58	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 1:58	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 1:58	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 1:58	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 1:58	CK80208
Aroclor 1260	0.2 (0.1)		8082A		1	11/06/18 1:58	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 1:58	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 1:58	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		63 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		59 %		30-150			
Surrogate: Tetrachloro-m-xylene		74 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-54 Date Sampled: 10/31/18 10:40 Percent Solids: 99 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-04 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed S	equence <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 2:17	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		56 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		52 %		30-150			
Surrogate: Tetrachloro-m-xylene		69 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-55 Date Sampled: 10/31/18 11:32 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-05 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u> <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1260	0.2 (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 2:36	CK8020
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		89 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150			
Surrogate: Tetrachloro-m-xylene		88 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-56 Date Sampled: 10/31/18 11:30 Percent Solids: 100 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-06 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed Sequen	<u>ce</u> <u>Batch</u> CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 2:56	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 2:56	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 2:56	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 2:56	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 2:56	CK80208
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	11/06/18 2:56	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 2:56	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 2:56	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		68 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150			
Surrogate: Tetrachloro-m-xylene		80 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-57 Date Sampled: 10/31/18 13:26 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-07 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 3:15	(CK80208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-58 Date Sampled: 10/31/18 13:15 Percent Solids: 98 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-08 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u> CK 80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 3:34		CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 3:34		CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 3:34		CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 3:34		CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 3:34		CK80208
Aroclor 1260	LC, P 0.2 (0.1)		8082A		1	11/06/18 3:34		CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 3:34		CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 3:34		CK80208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-59 Date Sampled: 10/31/18 13:03 Percent Solids: 98 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-09 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u>	Analyzed Sequer	nce <u>Batch</u> CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 3:54	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 3:54	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 3:54	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 3:54	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 3:54	CK80208
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	11/06/18 3:54	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 3:54	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 3:54	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		36 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		33 %		30-150			
Surrogate: Tetrachloro-m-xylene		43 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-19 Date Sampled: 10/30/18 10:35 Percent Solids: 100 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-10 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequer	ice <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
Aroclor 1260 [2C]	15.7 (1.0)		8082A		10	11/06/18 10:31	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 6:08	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		82 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150			
Surrogate: Tetrachloro-m-xylene		88 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-20 Date Sampled: 10/30/18 10:55 Percent Solids: 100 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-11 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
Aroclor 1260 [2C]	6.4 (0.5)		8082A		5	11/06/18 10:50	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 6:28	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		82 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150			
Surrogate: Tetrachloro-m-xylene		90 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		105 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-21 Date Sampled: 10/30/18 11:20 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-12 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
Aroclor 1260 [2C]	7.5 (0.5)		8082A		5	11/06/18 11:09	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 6:47	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		72 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150			
Surrogate: Tetrachloro-m-xylene		76 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-15 Date Sampled: 10/30/18 11:45 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-13 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sec	<u>quence</u> <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1260 [2C]	0.8 (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 7:06	CK80208
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		76 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150			
Surrogate: Tetrachloro-m-xylene		85 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>99 %</i>		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-16 Date Sampled: 10/30/18 12:15 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811012 ESS Laboratory Sample ID: 1811012-14 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 16:10

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1260 [2C]	1.5 (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 7:26		CK80208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811012

Quality Control Data

				Spike	Source		%REC	BF-	RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
	٤	3082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CK80208 - 3540C										
Blank										
Aroclor 1016	ND	0.02	ma/ka wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0238		mg/kg wet	0.02500		<i>95</i>	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0180		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		102	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		99	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		99	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		96	40-140			
Surrogate: Decachlorobiphenyl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0191		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xylene	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0211		mg/kg wet	0.02500		84	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		108	40-140	5	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		105	40-140	6	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		105	40-140	5	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		101	40-140	5	30	
Surrogate: Decachlorobiphenyl	0.0266		mg/kg wet	0.02500		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0201		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0243		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0223		mg/kg wet	0.02500		89	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811012

Notes and Definitions

U	Analyte included in the analysis, but not detected
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
F/V	Final volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit

EDL Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811012

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories.pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1811012	
Shipped/Delivered Via: ESS Courier	Date Received: 11/1/2018 Project Due Date: 11/8/2018 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / Nor NA
5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time?	Yes 🔞
11. Any Subcontracting needed? Yes / 🔞 ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / 😥 Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes / No a. Was there a need to contact the client? Yes / No Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	285274	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	285273	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	285272	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	285271	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	285270	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	285269	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	285268	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	285267	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	285266	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	285265	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	285264	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	285263	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	285262	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	285261	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

Yes / No Yes / No			
Date & Time:	1/1/18	1818	
Date & Time:	1118	1830	
	Yes / No Yes / No Date & Time: Date & Time:	Yes / Yo Yes / Yo Date & Time: Date & Time: NI	Yes / No Yes / No Date & Time: 0 Date & Time: 0 <td< td=""></td<>

ESS Laboratory Sample and Cooler Receipt Checklist



ESS L	aboratory	,		C		YΥ	ESS Lai) #	1	8110	012				
Division of	Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush		Reporting PCBs < 0.5 mg/kg								
185 Franc	es Avenue, Cr	anston RI 0291	0	Regulatory State	Rhode Island	Limits	; 								
Tel. (401)	461-7181 Fa	x (401) 461-448	36	ls thi	s project for any of the follow	Electon	ic L	Limit Check	ker	,	{Standar	d Excel			
www.essla	boratory.com			UCT RCP			Deliverat	oles ⊡	JOther (Plea	ise Specify	<u>→)</u>				
	Concor	npany Name	ontists	Project #	Project Nat Pawtucket 1 Control House, 6 Thor	ne nton Ave, Pawtucket Ri									
		ntact Person	Cilloto	0070.	Address		is.								
	1	Mark Zoller			4 First Street		alys								
	City		Si	ate AA	Zip Code 02324	5675.F	An A								
	elephone Nu	mber	FAX	lumber	Email Addre		82								
	508-697-31	91			jaevazalis, mzoller, kloftu	s@coneco.com		\$ 8							
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID		PCB							
Ī	10/3/18	Il:00 AM	6105	Locurete	ILS-01-52			X			_	+			
Z	10/31/18	11:00 AM	Grab	Concrete	Dup - 07	<u> </u>		X							
3	10/31/18	10:23AM	Grub	Contrete	LUS-01-53			X				_	<u> </u>		
4	10/31/18	10:40AM	Grab	Convete	ICS-01-54	<u>.</u>		X		<u> </u>					
5	10131/18	11:32AM	G lab	Concrete	± (1=01-55			X							 _
6	10/31/18	11:50 AM	Grub	Contrete	I(1-01-56			X			_				<u> </u>
ר _	10/31/18	1:26pm	Grab	Concrete	tcs-01-57			X.		_					
8	10/31/18	1:15pM	Grab	Concrete	t(5-01-58		, <u></u>	X.	_				<u> </u>		+
9	10/31/18	1:03 pm	Grub	con crete	I()-01-59			$ \Lambda $		<u></u>					
Co	ntainer Type:	AC-Air Casset	ite AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	rile V-Vial	AG					┤─┥─		
Cont	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 ml	_ 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9			- - -	_ _	<u> </u>		
Prese	rvation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	lethanol 7-Na2S2O3 8-ZnAce, NaO	0H 9-NH4CI 10-DI H2C	0 11-Other*	1				_	┼╌╎╌━	┝╌╿┈	+
					Numbe	r of Containers per	Sample:	1				_1			
		Laborator	ý Use Only		Sampled by : MJM/WR	A									
Coole	r Present:	$_$	Comments: Please specify "Other" preservative and containers types in this space												
Sea	Is Intact:				National G	Grid Project, Use Man	ual Soxhlet	Extrac	tion per E	PA Meth	od 3540,	Report Dry	Weight		
Cooler T	emperature:	2.6	°CILER	<u> </u>				D 1	0.71	<u> </u>	Dessit	ad Dyr (Cig		to & Tin	<u></u>
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	Coneco En	gineers and Sc	cientists	Project #	Project N	lame		TT			$\frac{\alpha_{ny} \rightarrow \beta}{1}$			·			<u> </u>
	Co	ntact Person			Address	homton Ave, Pawtucket RI	4										
	City	Mark Zoller	<u> </u>		4 First Street		sis		Ì								
	Bridgewate	er		State MA	Zip Code	PO #	laly										
	Telephone Nu	mber	FAX	Number	02324 Empil Adv	<u>5675.F</u>	Ā			i I							
FREI	508-697-31	91			jaevazalis, mzoller, klot	tus@coneco.com		8							1 1	1	
	Collection	Collection	Sample Type	Sample Matrix			<u> </u>	8									
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Conte	inor Volume	AC-Air Cassette	e AG-Amber Glas	ss B-BOD Bottle C	-Cubitainer G - Glass O-C	Other P-Poly S-Steri	e V-Vial	AG			┨━┤-		[╀━┤	<u> </u>	·	┼──┠──
Preso	anel volume:	1-100 ML 2-2	2.5 gal 3-250 mL	_ 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	2 9-4 oz 10-8 oz	11-Other*	9	╌┾──┼		+			╆┈┧		-	
		1-INON Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-Me	thanol 7-Na2S2O3 8-ZnAce, Nac	OH 9-NH4CI 10-DI H2O	11-Other*	1	┢		┝╴├╴					_ _	┟╶┼─
					Numbe	er of Containers per S	ample:	1	┥┥					╉╍╉			
		Laboratory	Use Only		Sampled by : MJM/WR	A		· ·			<u>L</u>						
Cooler	Present:	\sim		Comments: Please specify "Other"													
Seals	s Intact:				t rouse specify other preservative and containers types in this space												
Cooler Te	emperature [.]	<u> </u>	·		National G	Brid Project, Use Manua	al Soxhlet f	Extract	ion per l	EPA Met	thod 3	540. Re	port Drv	Weiał	ot		
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1811013

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:41 pm, Nov 08, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811013

SAMPLE RECEIPT

The following samples were received on November 01, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1811013-01	ICS-01	Solid	8082A
1811013-02	ICS-02	Solid	8082A
1811013-03	ICS-03	Solid	8082A
1811013-04	ICS-01-45	Solid	8082A
1811013-05	ICS-01-46	Solid	8082A
1811013-06	ICS-01-47	Solid	8082A
1811013-07	ICS-01-48	Solid	8082A
1811013-08	ICS-01-49	Solid	8082A
1811013-09	ICS-01-50	Solid	8082A
1811013-10	ICS-01-51	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811013

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811013

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01 Date Sampled: 10/30/18 09:40 Percent Solids: 98 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-01 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1254	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1260	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 15:19		CK80210
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		61 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		48 %		30-150				
Surrogate: Tetrachloro-m-xylene		44 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		48 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02 Date Sampled: 10/30/18 10:00 Percent Solids: 98 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-02 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1254	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1260	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 17:17		CK80210
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03 Date Sampled: 10/31/18 14:30 Percent Solids: 94 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-03 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Se	equence <u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1254	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1260 [2C]	0.8 (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 17:36	CK80210
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		77 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150			
Surrogate: Tetrachloro-m-xylene		74 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		79 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-45 Date Sampled: 10/30/18 13:57 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-04 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte Arcelor 1016	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence Batch CK80210
Aroclor 1221	ND (0.2) ND (0.2)		8082A 8082A		1	11/05/18 17:56	CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 17:56	CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 17:56	CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 17:56	CK80210
Aroclor 1254	ND (0.2)		8082A		1	11/05/18 17:56	CK80210
Aroclor 1260	ND (0.2)		8082A		1	11/05/18 17:56	CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 17:56	CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 17:56	CK80210
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		76 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150			
Surrogate: Tetrachloro-m-xylene		79 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-46 Date Sampled: 10/31/18 08:40 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-05 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u>	Batch
Aroclor 1221	ND (0.2) ND (0.2)		8082A 8082A		1	11/05/18 18:15		CK80210 CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 18:15		CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 18:15		CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 18:15		CK80210
Aroclor 1254 [2C]	0.3 (0.2)		8082A		1	11/05/18 18:15		CK80210
Aroclor 1260 [2C]	0.3 (0.2)		8082A		1	11/05/18 18:15		CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 18:15		CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 18:15		CK80210
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-47 Date Sampled: 10/31/18 08:45 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-06 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Se	equence Batch
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1254 [2C]	0.4 (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1260 [2C]	0.4 (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 18:34	CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 18:34	CK80210
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		75 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150			
Surrogate: Tetrachloro-m-xylene		87 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>93 %</i>		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-48 Date Sampled: 10/31/18 09:00 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-07 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed S	Sequence <u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1254 [2C]	0.4 (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1260 [2C]	0.4 (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 18:54	CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 18:54	CK80210
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		74 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150			
Surrogate: Tetrachloro-m-xylene		84 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-49 Date Sampled: 10/31/18 09:50 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-08 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1254 [2C]	0.6 (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1260	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 19:13		CK80210
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-50 Date Sampled: 10/31/18 09:30 Percent Solids: 98 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-09 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1254	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1260	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 19:32		CK80210
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-51 Date Sampled: 10/31/18 09:15 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811013 ESS Laboratory Sample ID: 1811013-10 Sample Matrix: Solid Units: mg/kg dry Analyst: CAD Prepared: 11/2/18 17:35

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1254	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1260	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 21:47		CK80210
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		64 %		30-150				
Surrogate: Tetrachloro-m-xylene		53 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811013

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CK80210 - 3540C										
Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0161		mg/kg wet	0.02500		64	30-150			
Surrogate: Tetrachloro-m-xylene	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0197		mg/kg wet	0.02500		79	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		99	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		93	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		97	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		88	40-140			
Surrogate: Decachlorobiphenvl	0.0249		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0182		mg/kg wet	0.02500		73	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0224		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0203		mg/kg wet	0.02500		81	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		104	40-140	5	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		99	40-140	6	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		102	40-140	5	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		95	40-140	7	30	
Surrogate: Decachlorobiphenvl	0.0261		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobinhenvl [2C]	0.0191		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0234		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0212		mg/kg wet	0.02500		85	30-150			
			-							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811013

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811013

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco Engi	ineers, Scienti E	sts & Surv -	KPB/TB/MM	·	ESS F Date f Project I Days fo	Project ID: Received: Due Date: or Project: match bottles?	1811013 11/1/2018 11/8/2018 5 Day	
Air No.:		NA				0.00000000	indian bottloo.		
2. Were cu	stody seals p	resent?		No		7. Is COC con	nplete and correct	?	Yes
3. Is radiati	on count <10	0 CPM?		Yes		8. Were samp	les received intact	?	Yes
4. Is a Coo	ler Present?	المعط بمطفيه	laa	Yes		9. Were labs	informed about	<u>hort holds & rushes</u> ?	Yes / No 🕅
5. Was CC	C signed and	d dated by cli	ent?	Yes		10. Were any	analyses received	l outside of hold time?	Yes /
11. Any Sul ESS	bcontracting i Sample IDs: Analysis: TAT:	needed?	Yes	/100		12. Were VO/ a. Air bubbles b. Does meth	As received? s in aqueous VOAs nanol cover soil con	s? npletely?	Yes / 🚺 Yes / No Yes / No / NA
13. Are the a. If metals b. Low Lev	e samples pro s preserved u vel VOA vials	operly presen pon receipt: frozen:	/ed?	Ves / No Date: Date:		Time: Time:		Ву: Ву:	
14. Was the	here a need to	o contact Pro	ject Manag	er?	Yes / 🔞 Yes / No	Time:		By:	
Sample	Container	Proper	Air	Sufficient	Contair		Preservative	Record pH (C)	vanide and 608
Number	ID	Container	Present	Volume				Pesti	cides)
01	285288	Yes	NA	Yes	4 oz. Jar	- Unpres	NP		
02	285287	Yes	NA	Yes	4 oz. Jar	- Unpres			
03	285286	Yes	NA	Yes	4 0Z. Jar	- Unpres			
04	285285	Yes	INA NA	Tes	4 0Z. Jar	- Onpres			
05	285284	Yes	NA	res	4 oz. Jar	- Onpres			
06	285283	Yes	NA	Yes	4 oz. Jár	- Unpres			
07	285282	Yes	NA	Yes	4 oz. Jar	- Unpres	NP		
08	285281	Yes	NA	Yes	4 oz. Jai	- Unpres	NP		
09	285280	Yes	NA	Yes	4 oz. Jar	- Unpres	NP		
10	285279	Yes	NA	Yes	4 oz. Jar	- Unpres	NP		
2nd Revie	w				$\hat{\mathcal{O}}$				

2nd Review Are barcode labe Are all necessary	ls on correct containers? / stickers attached?	Yes No Yes / No	,		
Completed By:	AND	Date & Time:	uhle_	1819	
Reviewed By:	(Alin)	Date & Time:	ulilis	1840	
Delivered By:		i/Ty[18 1	840	
	- Ja-	<u> </u>	•		

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Tel. (401	1) 461-7181 F	ax (401) 461-44	486	ls t	llowing?			lumb Cha					, 			
www.ess	slaboratory.com	1			СР (ОМА МСР	ORGP	Delivera	nic L Ibles D	Juimit Check	(er Coosifi	,	Sta	Indard Ex	cel		
	Coneco Er	ompany Name		Project #	Project	Name				ise specity -	→) T · T	— ₁ — ,				<u> </u>
	C	Intact Person	Jenusis	<u>5675.F</u>	Pawtucket 1 Control House, 6	Thomton Ave, Pawtucket RI										
		Mark Zoller			4 First Street		Sis									
	City	or		State	Zip Code	PO #	- ja									
	Telephone Nu	Imber	FAX	MA	02324	<u>5675.F</u>	_ ¥									
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3	10/31/18	2:30PM	Grab	Concret,	+ 15-03			$\frac{1}{x}$	╈		┥┽	╶╆╌┠		┼━┼╴		+ + -
4	10/30/18	1:57pm	Grob	Concrete	I (5-01-45			x	┼╾┼╼	╏╺┟	╈╄	┉┼╼╌┼		┥┼	+-	┝─╎─┤
5	10/31/18	8:40 AM	Grab	Consecto	Ics-01-46					┥┽	╄╌┞─			╇╌╁╴		
6	6131118	8:45 AM	Grab	Contate	TCS-01-47			$\frac{n}{x}$	┼─┼─	┥┦╴	┼╌┼─	+-+		┥╷	┼	
47	10/3//18	9:00 AM	Ginb	Concrete	T c s - a l - 4 R				+ $+$ $-$	┝╌╎──		┽┾		<u> _ _</u>		
8	10/31/18	9:50 AM	Grat	Convert	T(3-0) - 49				+ $+$	┝╌┟─	┥┥	╉╌╄		┼─┼╴	_	
9	10(31/18	9:30 AM	Grub	Contents	F 1.5 - 1-50	·····		$\frac{1}{x}$	┥┝	<u> </u>		┿╌╀		\square		
10	10131/18	9:15 AM	Graf	Concete	7 (3-0)-01					╎╶┽┈╸	┝╴┝╴	┥		$ \downarrow \downarrow $		
Co	ntainer Type:	AC-Air Cassette	e AG-Amber Gla	SS B BOD Bottlo				Λ								
Conta	ainer Volume:	1-100 mL 2-2	2.5 gal 3-250 m	4-300 ml 5 500	-Cubitainer G - Glass O-	Other P-Poly S-Steri	le V-Vial	AG							+-+	
Prese	rvation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-Ma	THE 0-1L /-VOA 8-2 (oz 9-4 oz 10-8 oz	11-Other*	9								
					Numk	OH 9-NH4CI 10-DI H2O	11-Other*	1							1 1	
		Laboratory	Use Only		Sompled by MiMAAA	per of Containers per S	ample:	1							II	
Cooler	Present:				Commenter											
Seals	s Intact:	<u>V</u>			Comments:	Please spec	ify "Other	" prese	rvative an	d contai	ners typ	es in th	is spac	ce 🗌		
Cooler Te	Cooler Temperature: 2.6 °C T CE RC National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight															
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116 116 116



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1903020

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:32 pm, Mar 08, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903020

SAMPLE RECEIPT

The following samples were received on March 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1903020-01	ICS-03-22	Solid	8082A
1903020-02	ICS-03-23	Solid	8082A
1903020-03	ICS-03-24	Solid	8082A
1903020-04	ICS-03-25	Solid	8082A
1903020-05	ICS-03-26	Solid	8082A
1903020-06	ICS-03-27	Solid	8082A
1903020-07	ICS-03-28	Solid	8082A
1903020-08	ICS-03-29	Solid	8082A
1903020-09	ICS-03-30	Solid	8082A
1903020-10	ICS-03-31	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903020

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903020

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-22 Date Sampled: 02/28/19 09:30 Percent Solids: 99 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u> CC90407
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
Aroclor 1260	0.8 (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 19:04	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>98 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-23 Date Sampled: 02/28/19 09:35 Percent Solids: 99 Initial Volume: 5.61 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte	<u>Results (MRL)</u>	MDL	<u>Method</u>	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1016	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1221	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1260	1.3 (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 19:23	C9C0096	CC90407
	<u>(</u>	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		93 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>99 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-24 Date Sampled: 02/28/19 09:40 Percent Solids: 100 Initial Volume: 5.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 19:42	Sequence C9C0096	<u>Batch</u> CC90407
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
Aroclor 1260	0.9 (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 19:42	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-25 Date Sampled: 02/28/19 09:45 Percent Solids: 99 Initial Volume: 5.52 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1221	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1260	1.4 (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 20:01	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		87 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		100 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-26 Date Sampled: 02/28/19 09:50 Percent Solids: 99 Initial Volume: 5.31 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1016	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1221	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1260	1.5 (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 20:21	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		52 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		53 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		57 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-27 Date Sampled: 02/28/19 09:55 Percent Solids: 99 Initial Volume: 5.27 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1221	ND (0.1) ND (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
Aroclor 1260	2.1 (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 20:40	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		97 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		99 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-28 Date Sampled: 02/28/19 10:00 Percent Solids: 99 Initial Volume: 5.68 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.09) ND (0.09)		8082A 8082A		1	03/06/19 20:59	C9C0096	CC90407 CC90407
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 20:59	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 20:59	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 20:59	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 20:59	C9C0096	CC90407
Aroclor 1260	1.9 (0.09)		8082A		1	03/06/19 20:59	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 20:59	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 20:59	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-29 Date Sampled: 02/28/19 10:05 Percent Solids: 98 Initial Volume: 5.45 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A 8082A		1	03/06/19 23:14	C9C0096	CC90407
Aroclor 1222 Aroclor 1232	ND (0.09)		8082A		1	03/06/19 23:14	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 23:14	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 23:14	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 23:14	C9C0096	CC90407
Aroclor 1260	2.5 (0.09)		8082A		1	03/06/19 23:14	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 23:14	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 23:14	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-30 Date Sampled: 02/28/19 10:10 Percent Solids: 99 Initial Volume: 5.32 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		I	03/06/19 23:33	C9C0096	CC90407
Aroclor 1221	ND (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
Aroclor 1260	1.0 (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 23:33	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>96 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		101 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-31 Date Sampled: 02/28/19 10:15 Percent Solids: 99 Initial Volume: 5.55 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903020 ESS Laboratory Sample ID: 1903020-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:00

Analyte	Results (MRL)	MDL	<u>Method</u>	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1221	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1260	1.5 (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 23:52	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903020

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CC90407 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0263		mg/kg wet	0.02500		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0259		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.0249		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		97	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Surrogate: Decachlorobiphenyl	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		98	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	5	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		105	40-140	3	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		93	40-140	5	30	
Surrogate: Decachlorobiphenyl	0.0259		mg/kg wet	0.02500		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0263		mg/kg wet	0.02500		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.0254		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903020

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903020

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Clier	nt: <u>Coneco E</u>	ngineers, Scie	entists & Sur	- v - КРВ/ТВ/ММ	• -	FSS		1002000	
					-	Date	Received:		
Shipped/	Delivered Via	a:	ESS Cour	ier		Project	Due Date:	3/8/2019	
					-	Davs f	or Project:	<u>5 Dav</u>	
1. Air bill Air No	manifest pre	sent? NA		No]	6. Does COC	match bottles?	<u>5 Day</u>	Yes
2. Were	custody seals	present?		No]	7. Is COC co	mplete and correc	17	Yes
Is radia	ation count <	100 CPM?		Yes]	8. Were samp	ples received intac	t?	Yes
4. is a Co Temp	oler Present	? _ lced with	: Ice	Yes]	9. Were labs	informed about	<u>short holds & rushes</u> ?	Yes / No NA
5. Was C	OC signed a	nd dated by	client?	Yes]	10. Were any	analyses receive	d outside of hold time?	Yes No
11. Any Si ESS	ubcontracting Sample IDs Analysis TAT	y needed?	Yes	s (No)	· · · · · · · · · · · · · · · · · · ·	12. Were VOA a. Air bubbles b. Does meth	As received? s in aqueous VOA anol cover soil co	s? npletely?	Yes No Yes No/NA
13. Are th a. If metal b. Low Le Sample Re	e samples pr s preserved over VOA vials eceiving Note	roperly prese upon receipt: s frozen: s:	rved?	Yes No Date: Date:		_ Time: _ Time:		Ву: Ву:	
14. Was the a. Was the Who was c	nere a need to ere a need to contacted?	o contact Pre contact the	oject Manag client?	ier? _ Date: _	Yes/No Yes/No	Time:		Ву:	
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Containe	r Type	Preservative	Record pH (Cyanic Pesticide	de and 608.3
01	320486	Yes	NA	Yee	4 07 lor	Lipproc			
02	320485	Yes	NA	Vae	-+ UZ. Jar -	Unpres	NP		-
03	320484	Yes	NA	Vee	4 oz. Jar -	Unpres	NP		
04	320483	Yes	NA	Yee	4 02. Jar -	Unpres	NP		
05	320482	Yes	NA	Yee	4 02. Jar -	Unpres	NP		
06	320481	Yes	NA	Yee	- UZ. Jai -	Unpres	NP		
07	320480	Yes	NA	Vee		Unpres	NP		
08	320479	Yes	NΔ	Ven	4 0Z. Jar -	Unpres	NP		
09	320478	Yee	NA NA	res Veo	4 oz. jar -	Unpres	NP		
10	320477	Yes	NA	Yes	4 oz. jar - 4 oz. jar -	Unpres Unpres	NP NP		
2nd Review All contain Are barcode Are all nece	ers scanned labels on co ssary sjickers	l into storag rrect contain s attact ed?	je/lab ers?	(Hoitials: Yes / No Yes / No	A			

Date & Time:

Date & Time:

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3/1/19

Completed By:

Reviewed By:

Delivered By:

Page 18 of 19

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Division of Thioloch Engineering Inc.			Turn Time:	5-Day Rush:		Reporting	PCB	s <0.5	5 ppm	N					1	
ivision of 85 Frances	- Avenue. Cran	nston RI 02910	v 1	Regulatory State:	Rhode Island		Limits		mit Of	Jecko-		xcel				——––––––––––––––––––––––––––––––––––––
Tel. (404) 44	61-7181 Fav /	(401) 461-4486	3 1	Is this	s project for any of the followi.	ing?:	Electonic			HECKEI	ecifiv)	- NOCI → PDF				1
www.essiah	oratory.com			МА-МСР	CT-RCP RGP) Lo-		<u></u>			<u> </u>				
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ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Samı	ole ID 		3	!_ <u> </u>		++	!_ <u> </u>	 _ _	+-+-		
	2/28/19	9:30 a.M.	Grab	Concrete	ICS-03-2	12	<u>></u>	×	<u> </u>	++		! _	+-+-	++	┽┽	-
2	2/28/19	9:35 a.n.	Grab	Concrete	ICS-03-2	23	<u> </u>	\rightarrow	└┼─	+-+		- + -	++	++	+	
3	2/28/19	9:40 a.M	Grab	Concrete	ICS-03-	24	Ę	\rightarrow	\vdash	++		└─┼─ ∖	+-+-	++	++	-+
Y	2/28/19	9:45 a.M.	Grab	Concrete 1	ICS-03-	25		++	\vdash	+	-	├ - <u> </u> -	++	++	+ +	`
5	2/28/19	9:50 gm	Grab	Concrete 1	<u> </u>	26	<u> </u>	\rightarrow	↓ _ <u></u> <u></u> _	++	-+-1	++-	┾┾	+++	-+	<u>-</u>
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G	2/28/19	10:10 a.n.	Grab	loncrite_	ICS-03-	- 50	ť	$\frac{1}{2}$	╀━╂╼	++	- ,	╀╋	┾┾	┼┼		╄╾╁╾
16	2/28/19	10:15 a.M.	Grab	Concrete	ICS-03	- S	,		+-+	++	<u> </u>	╊╌╂──	+++-			
Cc	ontainer Type	N	AG-Amber Glass	s B-BOD Bottle (ethanol 7-Na2S203 & Zalace NaC	VH 9-NH4CI 10-DI H2	'O 11-Other*	1	+-+-		<u> </u>			\square		
Prese	ervation Code.	1-Non Preserve	ed 2-HCI 3-H2SO4	4-HNU3 5-NaOH 6-1	110010101 1-11020200 0-211M08, 118	Number of C	Containers: ງ	10								
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Laboratory Use Only Sampled by : DJD/CKL Please specify "Other" preservative and containers types in this space							1+, hum.									
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1903021

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:34 pm, Mar 08, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903021

SAMPLE RECEIPT

The following samples were received on March 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1903021-01	DUP-08	Solid	8082A
1903021-02	ICS-03-32	Solid	8082A
1903021-03	ICS-03-33	Solid	8082A
1903021-04	ICS-03-34	Solid	8082A
1903021-05	ICS-03-35	Solid	8082A
1903021-06	ICS-03-36	Solid	8082A
1903021-07	ICS-03-37	Solid	8082A
1903021-08	ICS-03-38	Solid	8082A
1903021-09	ICS-03-39	Solid	8082A
1903021-10	ICS-03-40	Solid	8082A
1903021-11	ICS-03-41	Solid	8082A
1903021-12	ICS-03-42	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903021

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1903021-08	<u>Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).</u>
	Tetrachloro-m-xylene [2C] (197% @ 30-150%)
1903021-10	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903021

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-08 Date Sampled: 02/28/19 10:20 Percent Solids: 99 Initial Volume: 5.34 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:35

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1221	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1232	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1242	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1248	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1254	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1260	0.7 (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1262	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
Aroclor 1268	ND (0.09)		8082A		1	03/05/19 20:34	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-32 Date Sampled: 02/28/19 10:25 Percent Solids: 99 Initial Volume: 5.31 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 03/05/19 20:53	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
Aroclor 1260	1.1 (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
Aroclor 1268	ND (0.1)		8082A		1	03/05/19 20:53	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		59 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		64 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-33 Date Sampled: 02/28/19 10:30 Percent Solids: 99 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 03/05/19_21:12	Sequence	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/05/19 21:12	C9C0059	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/05/19 21:12	C9C0059	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/05/19 21:12	C9C0059	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/05/19 21:12	C9C0059	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/05/19 21:12	C9C0059	CC90408
Aroclor 1260	6.0 (1.0)		8082A		10	03/06/19 18:55	C9C0059	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/05/19 21:12	C9C0059	CC90408
Aroclor 1268	ND (0.1)		8082A		1	03/05/19 21:12	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		85 %		30-150				
Surrogate: Tetrachloro-m-xylene		93 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-34 Date Sampled: 02/28/19 10:35 Percent Solids: 99 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/05/19 21:32	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
Aroclor 1260	1.9 (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
Aroclor 1268	ND (0.1)		8082A		1	03/05/19 21:32	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-35 Date Sampled: 02/28/19 10:40 Percent Solids: 98 Initial Volume: 5.22 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 03/05/19 23:26	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
Aroclor 1260 [2C]	1.7 (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
Aroclor 1268	ND (0.1)		8082A		1	03/05/19 23:26	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>59 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-36 Date Sampled: 02/28/19 10:45 Percent Solids: 99 Initial Volume: 5.88 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:35

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	03/05/19 23:45	0900059	CC90408
Aroclor 1221	ND (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
Aroclor 1232	ND (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
Aroclor 1242	ND (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
Aroclor 1248	ND (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
Aroclor 1254	ND (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
Aroclor 1260	1.9 (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
Aroclor 1262	ND (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
Aroclor 1268	ND (0.09)		8082A		1	03/05/19 23:45	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-37 Date Sampled: 02/28/19 10:50 Percent Solids: 98 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 0:04	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 0:04	C9C0059	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 0:04	C9C0059	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 0:04	C9C0059	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 0:04	C9C0059	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 0:04	C9C0059	CC90408
Aroclor 1260	8.2 (1.0)		8082A		10	03/06/19 19:14	C9C0059	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 0:04	C9C0059	CC90408
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 0:04	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-38 Date Sampled: 02/28/19 10:55 Percent Solids: 99 Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19_20:30	Sequence	<u>Batch</u> CC90409
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 20:30	C9C0095	CC90409
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 20:30	C9C0095	CC90409
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 20:30	C9C0095	CC90409
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 20:30	C9C0095	CC90409
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 20:30	C9C0095	CC90409
Aroclor 1260	15.5 (1.0)		8082A		10	03/07/19 17:30	C9C0095	CC90409
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 20:30	C9C0095	CC90409
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 20:30	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		57 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		197 %	SM	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-39 Date Sampled: 02/28/19 11:00 Percent Solids: 99 Initial Volume: 5.52 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 16:05

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\underline{\mathbf{DF}}_{1}$	Analyzed	Sequence	Batch
Arocior 1016	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1221	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1260	2.1 (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 20:49	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-40 Date Sampled: 02/28/19 11:05 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 16:05

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1221	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1232	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1242	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1248	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1254	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1260	172 (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1262	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
Aroclor 1268	ND (5.0)		8082A		50	03/07/19 17:49	C9C0102	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-41 Date Sampled: 02/28/19 11:10 Percent Solids: 99 Initial Volume: 5.32 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-11 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 03/06/19 23:22	Sequence C9C0095	<u>Batch</u> CC90409
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
Aroclor 1260	3.7 (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 23:22	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-42 Date Sampled: 02/28/19 11:15 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903021 ESS Laboratory Sample ID: 1903021-12 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 23:41	Sequence C9C0095	<u>Batch</u> CC90409
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 23:41	C9C0095	CC90409
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 23:41	C9C0095	CC90409
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 23:41	C9C0095	CC90409
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 23:41	C9C0095	CC90409
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 23:41	C9C0095	CC90409
Aroclor 1260	11.0 (1.0)		8082A		10	03/07/19 18:08	C9C0095	CC90409
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 23:41	C9C0095	CC90409
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 23:41	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		96 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>96 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903021

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
L		8082A Poly	chlorinated B	Biphenyls	(PCB)					-
Batch CC90408 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenvl	0.0242		mg/kg wet	0.02500		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0232		mg/kg wet	0.02500		93	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0246		mg/kg wet	0.02500		98	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140			
	0 0227		ma/ka wat	0.02500		01	20 150			
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		97 80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0210		ing/kg wee	0.02500		07	50 150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		99	40-140	3	30	
Arocior 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	2	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		88	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140	3	30	
Surrogate: Decachlorobiphenyl	0.0237		mg/kg wet	0.02500		95	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0231		mg/kg wet	0.02500		<i>92</i>	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0222		mg/kg wet	0.02500		89	30-150			
Batch CC90409 - 3540C										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903021

Quality Control Data

Analytic Result MRL Units Level Result %REC Linkt RPD Linkt Qualifier B082A Polychloriniseted Biphenyls (PCB) <t< th=""><th></th><th></th><th></th><th></th><th>Spike</th><th>Source</th><th></th><th>%REC</th><th></th><th>RPD</th><th></th></t<>					Spike	Source		%REC		RPD	
Biolity Colore Jakoc Biolity Colore Jakoc Biolity Colore Jakoc Second Colore Jakoc Note Colore Jakoc <th>Analyte</th> <th>Result</th> <th>MRL</th> <th>Units</th> <th>Level</th> <th>Result</th> <th>%REC</th> <th>Limits</th> <th>RPD</th> <th>Limit</th> <th>Qualifier</th>	Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Ander 1320 No 0.2 mg/a wet Image wet Image wet Ander 1010 [C] NO 0.2 mg/a wet Image wet I			8082A Poly	chlorinated I	Biphenyls	(PCB)					
Bank vector 1016 ND 0.02 mp/ga wet Anactor 1201 ND 0.02 mp/ga wet Anactor 1211 ND 0.02 mp/ga wet Anactor 1221 ND 0.02 mp/ga wet Anactor 1221 ND 0.02 mp/ga wet Anactor 1221 ND 0.02 mp/ga wet Anactor 1221 ND 0.02 mp/ga wet Anactor 1240 ND 0.02 mp/ga wet <	Batch CC90409 - 3540C										
Ancient 1016 ND 0.02 marging wet Ancient 1016 ND 0.02 marging wet Marging wet Ancient 1016 ND 0.02 marging wet Ancient 1016 ND 0.02 margin	Blank										
Ancient (22) Ancient (22) Ancient (22) Ancient (22) Capital (22)NO0.02 	Aroclor 1016	ND	0.02	mg/kg wet							
Arcdor 1221 Arcdor 1221 CARCIA 122 Arcdor 1221 CARCIA 1224 CARCIA 1226 CARCIA 1226 <br< td=""><td>Aroclor 1016 [2C]</td><td>ND</td><td>0.02</td><td>mg/kg wet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></br<>	Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Nacial 121 [PC] Ancio 122ND0.02 ng/ng wetmg/ng wetset is it	Aroclor 1221	ND	0.02	mg/kg wet							
Ancher 1222ND0.02mg/ng wetNUNU0.02mg/ng wetAncher 1224ND0.02mg/ng wetNU <td>Aroclor 1221 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Ander 1242 [AC]ND0.02mg/hg wetAnader 1242 [AC]ND0.02mg/hg wetAnader 1243 [AC]ND0.02mg/hg wetAnader 1243 [AC]ND0.02mg/hg wetAnader 1243 [AC]ND0.02mg/hg wetAnader 1245 [AC]ND0.02mg/hg wetAnader 1245 [AC]ND0.02mg/hg wetAnader 1245 [AC]ND0.02mg/hg wetAnader 1245 [AC]ND0.02mg/hg wetAnader 1256 [AC]ND0.02mg/hg wetAnader 1258 [AC]ND0.02mg/hg wetAnader 1258 [AC]ND0.02mg/hg wetAnader 1258 [AC]AD0.02mg/hg	Aroclor 1232	ND	0.02	mg/kg wet							
Ander 1242ND0.02mg/ng wetAndor 1242 [Z]ND0.02mg/ng wetAndor 1248 [Z]ND0.02mg/ng wetAndor 1248 [Z]ND0.02mg/ng wetAndor 1248 [Z]ND0.02mg/ng wetAndor 1248 [Z]ND0.02mg/ng wetAndor 1254 [Z]ND0.02mg/ng wetAndor 1254 [Z]ND0.02mg/ng wetAndor 1254 [Z]ND0.02mg/ng wetAndor 1252 [Z]ND0.02mg/ng wetAndor 1262 [Z]ND0.02mg/ng wetAndor 1262 [Z]ND0.02mg/ng wetAndor 1263 [Z]ND0.02mg/ng wetAndor 1268 [Z]ND0.02mg/ng wetAndor 1269 [Z]0.02mg/ng wet0.0209.0Andor 1269 [Z]0.02mg/ng wet0.0209.0Andor 1269 [Z]0.02mg/ng wet0.0209.0Andor 1269 [Z]0.02mg/ng wet0.0209.0Andor 1269 [Z]0.02mg/ng wet	Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Ancolar 1242 [2C]ND0.02mg/lay wetAncolar 1248ND0.02mg/lay wetAncolar 1248ND0.02mg/lay wetAncolar 1254ND0.02mg/lay wetAncolar 1254ND0.02mg/lay wetAncolar 1256 [2C]ND0.02mg/lay wetSamogate: Descationary hypen0.024mg/lay wetAncolar 1256 [2C]0.025mg/lay wetAncolar 1256 [2C]0.025mg/lay wetSamogate: Descationary hypen0.024mg/lay wetAncolar 1256 [2C]0.025mg/lay wetSamogate: Descationary hypen0.024mg/lay wetAncolar 1256 [2C]0.050.02mg/lay wetAncolar 1256 [2C]0.550.02mg/lay wetAncolar 1256 [2C]0.550.02mg/lay wetAncolar 1256 [2C]0.550.02mg/lay wetAncolar 1256 [2C]0.550.02mg/lay wetAncolar 1256 [2C]0.55	Aroclor 1242	ND	0.02	mg/kg wet							
Areader 1248 ND 0.02 mg/kg wet Areader 1248 ND 0.02 mg/kg wet $< < < < < < < < < < < < < < < < < < < $	Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Accide 1248 [2C]ND0.02mg/hg wetAreader 1254 [2C]ND0.02mg/hg wetAreader 1256 [2C]ND0.02mg/hg wetAreader 1256 [2C]ND0.02mg/hg wetAreader 1256 [2C]ND0.02mg/hg wetAreader 1252 [2C]ND0.02mg/hg wetAreader 1252 [2C]ND0.02mg/hg wetAreader 1258 [2C]ND0.02mg/hg wetAreader 1258 [2C]ND0.02mg/hg wetAreader 1258 [2C]ND0.02mg/hg wetSarragater: Decarchiberologinamy0.024mg/hg wet0.0250973/157Sarragater: Teterchiberon-mykene0.024mg/hg wet0.0250973/157Sarragater: Teterchiberon-mykene0.024mg/hg wet0.0250973/157Areader 1016 [2C]0.030.02mg/hg wet0.020914/1405Areader 1016 [2C]0.50.02mg/hg wet0.500914/1405Sarragater: Teterchiberon-mykene [2C]0.244mg/hg wet0.500973/157	Aroclor 1248	ND	0.02	mg/kg wet							
Andor 1254 ND 0.02 mg/kg wet VI VI Andor 1254 [2C] ND 0.02 mg/kg wet VI	Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Arcdor 1254 [2C] ND 0.02 mg/kg wet Arcdor 1256 [2C] ND 0.02 mg/kg wet Arcdor 1268 [2C] ND 0.02 mg/kg wet Sumgate: Decarchlorothiphenyl 0.622 mg/kg wet 0.62500 9.7 30-150 Sumgate: Decarchlorothiphenyl 0.622 mg/kg wet 0.62500 9.9 30-150	Aroclor 1254	ND	0.02	mg/kg wet							
Arcder 1260 ND 0.02 mg/kg wet Ander 1260 [2C] ND 0.02 mg/kg wet Arcder 1262 [2C] ND 0.02 mg/kg wet Arcder 1262 [2C] ND 0.02 mg/kg wet Arcder 1262 [2C] ND 0.02 mg/kg wet Arcder 1268 [2C] ND 0.02 mg/kg wet Arcder 1268 [2C] ND 0.02 mg/kg wet Samogate: Decarchlorobiphenyl 0.4244 mg/kg wet 0.22500 101 30-150 Samogate: Tetrachloro-m-sylene 0.227 mg/kg wet 0.22500 91 30-150 Samogate: Tetrachloro-m-sylene [2C] 0.227 mg/kg wet 0.2500 91 30-150 Samogate: Tetrachloro-m-sylene [2C] 0.55 0.02 mg/kg wet 0.5000 91 40-140 Korder 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 Korder 1260 [2C] 0.4 0.22 mg/kg wet 0.5000 91 40-140 Samogate: Tetrachloro-m-sylene [2C] 0.4247 mg/kg wet 0.2500 96 30-150<	Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Arcdor 1260 [C] ND 0.02 mg/kg wet Arcdor 1262 ND 0.02 mg/kg wet Arcdor 1262 ND 0.02 mg/kg wet Arcdor 1263 ND 0.02 mg/kg wet Arcdor 1268 [C] ND 0.02 mg/kg wet Surrogate: Decachlarobijheny/ 0.024 mg/kg wet 0.0250 97 30-159 Surrogate: Decachlarobijheny/ 0.0251 mg/kg wet 0.02500 97 30-159 Surrogate: Decachlarobijheny/ 0.0247 mg/kg wet 0.02500 97 30-159 Surrogate: Tetachloro-m-sylene 0.0247 mg/kg wet 0.02500 99 30-159 Ket ND 0.02 mg/kg wet 0.02500 99 30-159 Ket ND 0.02 mg/kg wet 0.5000 91 40-140 Krodor 1260 0.5 0.02 mg/kg wet 0.2020 99 30-159 Surrogate: Tetachloro-m-sylene 0.025 mg/kg wet 0.2050 91 40-1	Aroclor 1260	ND	0.02	mg/kg wet							
Aradia 1262 ND 0.02 mg/kg wet Aradia 1262 [2C] ND 0.02 mg/kg wet Aradia 1262 [2C] ND 0.02 mg/kg wet Aradia 1268 [2C] ND 0.02 mg/kg wet 0.2520 97 30-157 Surrogate: Decachlorobiphenyl 0.0228 mg/kg wet 0.02500 97 30-157 Surrogate: Decachlorobiphenyl 0.0228 mg/kg wet 0.02500 97 30-157 Surrogate: Tetraholorom-sylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Decachlorobiphenyl 0.0227 mg/kg wet 0.02500 91 40-140 Surrogate: Tetraholorom-sylene 0.02 mg/kg wet 0.5000 91 40-140 Aredia 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 91 40-140 Surrogate: Decachlorobiphenyl 0.024 mg/kg wet 0.2020 92 30-150 Surrogate: </td <td>Aroclor 1260 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Arcdor 1262 [2C] ND 0.02 mg/kg wet Arcdor 1268 [2C] ND 0.02 mg/kg wet Arcdor 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decachlorobipheny/ 0.2244 mg/kg wet 0.2550 97 30-150 Surrogate: Tetrachloro-m-sylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0247 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0247 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0247 mg/kg wet 0.5000 91 40-140 Krodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 Arcdor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 90 30-150 Surrogate: Decachlorobipheny/ 0.0252 mg/kg wet 0.2500 99 30-150 Surrogate: Decachlorobipheny/ 0.0252 mg/kg wet 0.2500 93	Aroclor 1262	ND	0.02	mg/kg wet							
Arcdor 1268 ND 0.02 mg/kg wet Arcdor 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decachlorobiphenyl 0.0244 mg/kg wet 0.02500 97 30-150 Surrogate: Decachlorobiphenyl 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Decachlorobiphenyl 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Decachlorobiphenyl 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Decachlorobiphenyl 0.05 0.02 mg/kg wet 0.5000 91 40-140 Arcdor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 Arcdor 1016 [2C] 0.4 0.02 mg/kg wet 0.2500 90 40-140 Surrogate: Decachlorobiphenyl 0.2448 mg/kg wet 0.2500 91 30-150 Surrogate: Decachlorobiphenyl 0.227 mg/kg wet 0.2500 93 30-150	Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Arector 1288 [2C] ND 0.02 mg/kg wet 0.02500 97 30-150 Surrogate: Decachlorobiphenyl 0.0241 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-sylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.02 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.05 0.02 mg/kg wet 0.5000 91 40-140 Areckor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 Areckor 1260 0.5 0.02 mg/kg wet 0.5000 91 40-140 Surrogate: Tetrachloro-m-sylene 0.02 mg/kg wet 0.5000 91 40-140 5000 Surrogate: Tetrachloro-m-sylene 0.02 mg/kg wet 0.2500 91 30-150 500 Surrogate: Tetrachloro-m-sylene 0.022 <	Aroclor 1268	ND	0.02	mg/kg wet							
Surrogate: Decachlorabiphenyl 0.0244 mg/kg wet 0.02500 97 30-150 Surrogate: Decachlorabiphenyl [2C] 0.0251 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0247 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0247 mg/kg wet 0.5000 91 40-140 Arcolor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 Arcolor 1026 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 Surrogate: Decachlorabiphenyl 0.0249 mg/kg wet 0.02500 99 30-150 Surrogate: Decachlorabiphenyl 0.0249 mg/kg wet 0.02500 99 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0252 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.024 mg/kg wet 0.02500	Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl [2C] 0.0251 mg/kg wet 0.0250 91 30-150 Surrogate: Tetrachloro-m-xylene 0.024 mg/kg wet 0.02500 99 30-150 Surrogate: Tetrachloro-m-xylene 0.024 mg/kg wet 0.02500 99 30-150 Surrogate: Tetrachloro-m-xylene 0.024 mg/kg wet 0.0500 91 40-140 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 91 40-140 Surrogate: Decachlorobiphenyl 0.4 0.02 mg/kg wet 0.500 91 40-140 Surrogate: Decachlorobiphenyl 0.2248 mg/kg wet 0.500 99 30-150 Surrogate: Tetrachloro-m-xylene 0.024 mg/kg wet 0.0250 101 30-150 Surrogate: Tetrachloro-m-xylene 0.024 mg/kg wet 0.0250 98 30-150 Surrogate: Tetrachloro-m-xylene 0.024 mg/kg wet 0.0250 97	Surrogate: Decachlorobiphenyl	0.0244		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene 0.0228 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0247 mg/kg wet 0.02500 99 30-150 LCS <	Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		101	30-150			
Surragate: Tetrachloro-m-nylene [2C] 0.0247 mg/kg wet 0.02500 99 30-150 LCS Arcolor 1016 0.5 0.02 mg/kg wet 0.5000 91 40-140 Arcolor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 Arcolor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 90 40-140 Arcolor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 90 40-140 Surragate: Decachlorobiphenyl 0.0249 mg/kg wet 0.5000 90 40-140 Surragate: Decachlorobiphenyl 0.0249 mg/kg wet 0.62500 99 30-150 Surragate: Tetrachloro-m-sylene 0.0246 mg/kg wet 0.02500 98 30-150 Surragate: Tetrachloro-m-sylene [2C] 0.023 mg/kg wet 0.5000 97 40-140 6 30 Surragate: Tetrachloro-m-sylene [2C] 0.023 mg/kg wet 0.5000 85 40-140 6 30 Surragat	Surrogate: Tetrachloro-m-xylene	0.0228		mg/kg wet	0.02500		91	30-150			
LCS View of the second sec	Surrogate: Tetrachloro-m-xylene [2C]	0.0247		mg/kg wet	0.02500		99	30-150			
Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 103 40-140 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 90 40-140 Surragate: Decachlorobiphenyl 0.0248 mg/kg wet 0.02500 99 30-150 Surragate: Decachlorobiphenyl [2C] 0.0246 mg/kg wet 0.02500 98 30-150 Surragate: Tetrachloro-m-xylene 0.0246 mg/kg wet 0.02500 93 30-150 Surragate: Tetrachloro-m-xylene [2C] 0.0233 mg/kg wet 0.02500 93 30-150 LCS Dup Noclor 1016 0.5 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85	LCS										
Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.500 91 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 90 40-140 Surrogate: Decachlorobiphenyl 0.0248 mg/kg wet 0.02500 99 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0252 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0233 mg/kg wet 0.02500 93 30-150 LCS Dup mg/kg wet 0.02500 93 30-150	Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		103	40-140			
Arodor 1260 0.5 0.02 mg/kg wet 0.500 91 40-140 Arodor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 90 40-140 Surrogate: Decachlorobjphenyl 0.0248 mg/kg wet 0.02500 99 30-150 Surrogate: Decachlorobjphenyl [2C] 0.0246 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene 0.0246 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0233 mg/kg wet 0.02500 93 30-150 LCS Dup mg/kg wet 0.5000 97 40-140 6 30 Arodor 1016 0.5 0.02 mg/kg wet 0.5000 86 40-140 6 30 Arodor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Arodor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Surrogate: Decachlorobjphenyl 0.02 mg/kg wet 0.5000 85 40-140 6 <td>Aroclor 1016 [2C]</td> <td>0.5</td> <td>0.02</td> <td>mg/kg wet</td> <td>0.5000</td> <td></td> <td>91</td> <td>40-140</td> <td></td> <td></td> <td></td>	Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Arodor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 90 40-140 Surrogate: Decachlorobiphenyl 0.0248 mg/kg wet 0.02500 99 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0252 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene 0.0246 mg/kg wet 0.02500 98 30-150 LCS Dup Norogate: Tetrachloro-m-xylene [2C] 0.02 mg/kg wet 0.5000 97 40-140 6 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 97 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 50 Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 95 30-150 50 Surrogate: Tetrachloro-m-xylene [2C] 0.	Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl [2C] 0.0248 mg/kg wet 0.02500 99 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0252 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene 0.0246 mg/kg wet 0.02500 93 30-150 LCS Dup mg/kg wet 0.02500 97 40-140 6 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Surrogate: Decachlorobiphenyl [2C] 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Surrogate: Decachlorobiphenyl [2C] 0.0234 mg/kg wet 0.02500 94 30-150 50 Surrogate: Tetrachloro-m-xylene [2C]	Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobiphenyl [2C] 0.0252 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0233 mg/kg wet 0.02500 93 30-150 LCS Dup LCS Dup surrogate: Tetrachloro-m-xylene [2C] 0.02 mg/kg wet 0.5000 97 40-140 6 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Surrogate: Decachlorobiphenyl 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.4 0.02 mg/kg wet 0.02500 94 30-150 30 Surrogate: Decachlorobiphenyl 0.0238 mg/kg wet 0.02500 95 30-150 50 50 50 50 50 50 50 50 50 50	Surrogate: Decachlorobiphenyl	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene 0.0246 mg/kg wet 0.02500 98 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0233 mg/kg wet 0.02500 93 30-150 LCS Dup 0.02 mg/kg wet 0.5000 97 40-140 6 30 Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500	Surrogate: Decachlorobiphenyl [2C]	0.0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0233 mg/kg wet 0.02500 93 30-150 LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 97 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0238 mg/kg wet 0.02500 95 30-150 Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet	Surrogate: Tetrachloro-m-xylene	0.0246		mg/kg wet	0.02500		98	30-150			
LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 97 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0238 mg/kg wet 0.02500 95 30-150 Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet 0.02500 88 30-150	Surrogate: Tetrachloro-m-xylene [2C]	0.0233		mg/kg wet	0.02500		93	30-150			
Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 97 40-140 6 30 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 50 Surrogate: Decachlorobiphenyl [2C] 0.0238 mg/kg wet 0.02500 95 30-150 50 Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet 0.02500 88 30-150	LCS Dup										
Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 86 40-140 6 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 5	Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		97	40-140	6	30	
Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 85 40-140 6 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 5 Surrogate: Decachlorobiphenyl [2C] 0.0238 mg/kg wet 0.02500 95 30-150 5 Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 91 30-150 5 Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet 0.02500 88 30-150 5	Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	6	30	
Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 84 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 Image the second	Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		85	40-140	6	30	
Surrogate: Decachlorobiphenyl 0.0234 mg/kg wet 0.02500 94 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0238 mg/kg wet 0.02500 95 30-150 Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet 0.02500 88 30-150	Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140	6	30	
Surrogate: Decachlorobiphenyl [2C] 0.0238 mg/kg wet 0.02500 95 30-150 Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet 0.02500 88 30-150	Surrogate: Decachlorobiphenyl	0.0234		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet 0.02500 88 30-150	Surrogate: Decachlorobiphenyl [2C]	0.0238		mg/kg wet	0.02500		95	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0219 mg/kg wet 0.02500 88 30-150	Surrogate: Tetrachloro-m-xylene	0.0227		mg/kg wet	0.02500		91	30-150			
	Surrogate: Tetrachloro-m-xylene [2C]	0.0219		mg/kg wet	0.02500		88	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903021

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LUQ	Limit of Quantitation
	Detection Limit
I/V F/V	Final Volume
17 V e	Sub-sector dense state and sector and s
<u>8</u> 1	Subcontracted analysis; see attached report
1	Range result excludes concentrations of target analytes eluting in that range
2	Range result excludes the concentration of the $C9-C10$ aromatic range
Avø	Pagults reported as a mathematical average
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis: see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903021

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID:1903021 Date Received:3/1/2019	_
Shipped/Delivered Via: ESS Courier	Days for Project:5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No/ NA
Temp: <u>1.4</u> loed with: <u>loe</u> Yes	10. Were any analyses received outside of hold time?	Yes/ No
5. Was COC signed and dated by client?		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: 	Time: By: Time: By:	
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes No Yes No : Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type		Record pH (Cyanide and 608.3 Pesticides)
01 02 03 04 05 06 07 08 09 10 11 12 2nd Revie All conta Are barco Are all ne By:	320498 320497 320496 320495 320495 320493 320493 320492 320491 320489 320489 320488 320487 ew iners scann de labels on cessary etick	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	NA NA NA NA NA NA NA NA NA NA NA NA SA SA SA SA SA SA SA SA SA SA SA SA SA	Yes Yes Yes Yes Yes Yes Yes Yes Yes	4 oz. Jar - Unpres 4 oz.	NP NP NP NP NP NP NP NP NP NP NP NP	19
Reviewe By: Delivere	a 	N2X	<u>x</u>		_ Date & Time:		

Page 21 of 24

ESS Laboratory Sample and Cooler Receipt Checklist



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Division of	Thielsch Enair	neering, Inc.		Turn Time:	5-Day Rush:		Reporti	^{ng} P	CBs <0	.5 ppm					
185 France	s Avenue, Cra	inston RI 02910	D	Regulatory State:	Rhode Island		Limits	; 	1 1 1						
Tel. (401) 4	61-7181 Fax	(40 1) 461-448	6	is th	is project for any of the follow	Elector	nic L			⊆ LLI ⊏X vecifiv) →	PDF				
www.essla	boratory.com			MA-MCP			Deliveral							ТТ	
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	Cor N	ntact Person Iark Zoller			4 First Street	alysi	00 00								
	City Bridgewate	r	S Massa	tate ichusetts	Zip Code 02324	5675.F	Ā	letho							
т	elephone Nur 508-245-396	mber 67	FAX	umber Email Address jaevazelis,mzoller,kloftus@coneco.com				PV N							
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	nple ID		PCB							
	2/28/19	10:20 a.M.	Grab	Concrete	ICS B3 Du	p 08		X			_	_ _ +		++-	
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3	2/28/19	10:30 a.M.	Grab	Concrete	ICS-03-3	3		X		_	<u>_</u>			+ +-	
Y	2/28/19	10:35 a.M.	Grab	Concrete	ICS-03-3	34		X			-+-+				+ +
3	2/28/19	16:40 a.m.	Grab	Concrete	ICS-03-	35		X	- -			++		┥┽	
4	2/28/19	10:45 K.M.	Grab	Concrete	ICS-03-	36	, ·		- -				- -		+ +
7	2/28/19	10:50 G.N.	Grab	Concrete	ICS-03-	37						+ +			+
8	2/28/19	10:55 an	Grab	Concrete	ICS-03-	38					-┼-┼	_	╶┼╶┼	- +	+
g	2/28/19	11:00 am	Grab	Concrete	<u>Its-03</u> -	. <u>57</u>	. <u></u>	\bigcirc							
10	2/28/19	11:05	Grab	Concrete	$\frac{1CS-D3}{CClass} = \frac{1}{2} $	<u> </u>		ag	_					-	
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ŀ	<u> </u>	Laborato	ry Use Only		Sampled by : DJD/CKL						,	<u> </u>			
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185 France	es Avenue, Cra	nston RI 0291	0	Regulatory State:	Rhode Island		Limits	;								
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www.essla	boratory.com		·	MA-MCP	CT-RCP RGP	Remediation	Deliveral	nes L		lease Spec	;;;;y) _→ FD/			- <u>1</u>	T	
	Con Coneco Eng	npany Name ineers and Sc	ientists	Project # 5675.F	Pawhocket 1 Control Hus	C, 6 thorton Av	e F	82								
	Cor N	ntact Person lark Zoller			4 First Street		alysis	04 8C								
	City	r	S Massa	tate chusetts	Zip Code 02324	5675.F	An A	- EF								
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	508-245-396	67			jaevazelis,mzoller,kloftu	s@coneco.com		ا م م								
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID		PCB				_				
11	2/28/19	11:10 a.m	Grab	concrete	TCS-07-41			X			╏╴╎─┼					
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Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-	Methanol 7-Na2S2O3 8-2nAce, Na	Number of C	Containers	5	·		┼╴┤━┥				+	
						Number of C	Jontainers							<u>_</u>		
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Coole			-		National Grid Project, USE	Manual Soxhi	et extoru	hun	Per EF	A Metho	sel 35 "	10 , Kep	se un	, , ,	0 .	
Sea	is intact:				homogenize Samply	C, TSCA requi	rements	PNI	ide fu	1 (14/2	parcas	IC				
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				Γ	• •]	Page 24	4 of 24	

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 19J0020

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:35 pm, Oct 09, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0020

SAMPLE RECEIPT

The following samples were received on October 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
19J0020-01	ICS-03-19 0.5-1	Solid	8082A
19J0020-02	ICS-03-19 1-2	Solid	8082A
19J0020-03	ICS-03-19 2-3	Solid	8082A
19J0020-04	ICS-03-21 0.5-1	Solid	8082A
19J0020-05	ICS-03-21 1-2	Solid	8082A
19J0020-06	ICS-03-21 2-3	Solid	8082A
19J0020-07	ICS-03-38 0.5-1	Solid	8082A
19J0020-08	ICS-03-38 1-2	Solid	8082A
19J0020-09	ICS-03-38 2-3	Solid	8082A
19J0020-10	ICS-03-43 0-0.5	Solid	8082A
19J0020-11	ICS-03-43 0.5-1	Solid	8082A
19J0020-12	ICS-03-43 1-2	Solid	8082A
19J0020-13	ICS-03-43 2-3	Solid	8082A
19J0020-14	ICS-03-40 0.5-1	Solid	8082A
19J0020-15	ICS-03-40 1-2	Solid	8082A
19J0020-16	ICS-03-40 2-3	Solid	8082A
19J0020-17	ICS-03-40 3-4	Solid	8082A
19J0020-18	ICS-03-44	Solid	8082A
19J0020-19	ICS-03-45	Solid	8082A
19J0020-20	ICS-03-46	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0020

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

19J0020-03	<u>Surrogate recovery(ies) below lower control limit (S-).</u>
	Tetrachloro-m-xylene (29% @ 30-150%)
19J0020-10	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
19J0020-18	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
19J0020-19	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0020

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-19 0.5-1 Date Sampled: 09/26/19 08:00 Percent Solids: 99 Initial Volume: 5.35 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 16:26	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
Aroclor 1260	0.3 (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 16:26	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-19 1-2 Date Sampled: 09/26/19 08:05 Percent Solids: 99 Initial Volume: 5.57 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
Aroclor 1260 [2C]	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 16:46	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-19 2-3 Date Sampled: 09/26/19 08:10 Percent Solids: 99 Initial Volume: 5.47 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
Aroclor 1260	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 17:05	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		48 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		51 %		30-150				
Surrogate: Tetrachloro-m-xylene		29 %	<i>S</i> -	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		36 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-21 0.5-1 Date Sampled: 09/26/19 08:15 Percent Solids: 99 Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 17:24	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
Aroclor 1260	0.3 (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 17:24	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>93 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>89 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-21 1-2 Date Sampled: 09/26/19 08:20 Percent Solids: 100 Initial Volume: 5.34 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 17:43	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
Aroclor 1260	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 17:43	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		87 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>96 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-21 2-3 Date Sampled: 09/26/19 08:25 Percent Solids: 100 Initial Volume: 5.58 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:02	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
Aroclor 1260	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 18:02	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>85 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-38 0.5-1 Date Sampled: 09/26/19 08:30 Percent Solids: 99 Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:21	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
Aroclor 1260 [2C]	1.3 (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 18:21	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-38 1-2 Date Sampled: 09/26/19 08:35 Percent Solids: 99 Initial Volume: 5.57 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL) ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:40	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
Aroclor 1260 [2C]	0.5 (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 18:40	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-38 2-3 Date Sampled: 09/26/19 08:40 Percent Solids: 99 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:59	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
Aroclor 1260	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 18:59	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>89 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-43 0-0.5 Date Sampled: 09/26/19 08:45 Percent Solids: 99 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (2.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 20	<u>Analyzed</u> 10/07/19 23:53	Sequence C9J0157	<u>Batch</u> CJ90207
Aroclor 1221	ND (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
Aroclor 1232	ND (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
Aroclor 1242	ND (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
Aroclor 1248	ND (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
Aroclor 1254	ND (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
Aroclor 1260	47.6 (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
Aroclor 1262	ND (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
Aroclor 1268	ND (2.0)		8082A		20	10/07/19 23:53	C9J0157	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-43 0.5-1 Date Sampled: 09/26/19 08:50 Percent Solids: 99 Initial Volume: 5.52 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-11 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 19:38	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
Aroclor 1260	2.1 (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 19:38	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-43 1-2 Date Sampled: 09/26/19 08:55 Percent Solids: 100 Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-12 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 19:57	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
Aroclor 1260	1.4 (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 19:57	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				


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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-43 2-3 Date Sampled: 09/26/19 09:00 Percent Solids: 100 Initial Volume: 5.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-13 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 22:11	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 22:11	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		91 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>98 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>89 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-40 0.5-1 Date Sampled: 09/26/19 09:05 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-14 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 22:30	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 22:30	C9J0139	CJ90207
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 22:30	C9J0139	CJ90207
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 22:30	C9J0139	CJ90207
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 22:30	C9J0139	CJ90207
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 22:30	C9J0139	CJ90207
Aroclor 1260	7.1 (0.5)		8082A		5	10/08/19 0:12	C9J0139	CJ90207
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 22:30	C9J0139	CJ90207
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 22:30	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		91 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-40 1-2 Date Sampled: 09/26/19 09:10 Percent Solids: 100 Initial Volume: 5.32 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-15 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:05

Analyte Aroclor 1016	Results (MRL) ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 22:49	Sequence C9J0139	<u>Batch</u> CJ90207
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
Aroclor 1260	1.0 (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 22:49	C9J0139	CJ90207
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>96 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-40 2-3 Date Sampled: 09/26/19 09:15 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-16 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 14:57	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
Aroclor 1260	0.5 (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 14:57	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		102 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-40 3-4 Date Sampled: 09/26/19 09:20 Percent Solids: 100 Initial Volume: 5.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-17 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 15:16	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 15:16	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		106 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		115 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		108 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-44 Date Sampled: 09/26/19 09:25 Percent Solids: 99 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-18 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (500)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 5000	<u>Analyzed</u> 10/08/19 11:58	Sequence C9J0164	<u>Batch</u> CJ90208
Aroclor 1221	ND (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
Aroclor 1232	ND (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
Aroclor 1242	ND (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
Aroclor 1248	ND (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
Aroclor 1254	ND (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
Aroclor 1260	9080 (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
Aroclor 1262	ND (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
Aroclor 1268	ND (500)		8082A		5000	10/08/19 11:58	C9J0164	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-45 Date Sampled: 09/29/19 09:30 Percent Solids: 99 Initial Volume: 5.44 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-19 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 10000	<u>Analyzed</u> 10/08/19 12:17	Sequence C9J0164	<u>Batch</u> CJ90208
Aroclor 1221	ND (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
Aroclor 1232	ND (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
Aroclor 1242	ND (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
Aroclor 1248	ND (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
Aroclor 1254	ND (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
Aroclor 1260	27700 (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
Aroclor 1262	ND (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
Aroclor 1268	ND (930)		8082A		10000	10/08/19 12:17	C9J0164	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-46 Date Sampled: 09/29/19 09:35 Percent Solids: 99 Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0020 ESS Laboratory Sample ID: 19J0020-20 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 15:35	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
Aroclor 1260 [2C]	2.8 (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 15:35	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		114 %		30-150				
Surrogate: Tetrachloro-m-xylene		93 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		114 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0020

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ90207 - 3540C										
Arador 1016	ND	0.02	ma/ka wat							
Aroclor 1016	ND	0.02	mg/kg wet							
Arodor 1221	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1222	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0214		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0234		mg/kg wet	0.02500		93	30-150			
Surrogate: Tetrachloro-m-xylene	0.0157		mg/kg wet	0.02500		63	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0213		mg/kg wet	0.02500		85	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		81	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140			
	0.0305			0.03500		02	20.150			
Surrogate: Decachlorobiphenyl	0.0206		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0222		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.01/7		mg/kg wet	0.02500		/1 07	20 150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		84	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140	3	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		99	40-140	6	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		102	40-140	5	30	
Surrogate: Decachlorobinhenvl	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0232		mg/kg wet	0.02500		93	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0179		mg/kg wet	0.02500		71	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0208		mg/kg wet	0.02500		83	30-150			
Batch C190208 - 3540C										
Datch CJ90208 - 3340C										

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0020

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
				· ·						
Batch CJ90208 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Arocior 1262 [2C]	ND	0.02	mg/kg wet							
Arocior 1268	ND	0.02	mg/kg wet							
Arocior 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0258		mg/kg wet	0.02500		103	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		105	40-140			
Aroclor 1016 [2C]	0.6	0.02	mg/kg wet	0.5000		125	40-140			
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		119	40-140			
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		122	40-140			
	0 0250		ma/ka wet	0 02500		103	30-150			
Surrogate: Decachlorobiphenyl	0.0250		mg/kg wet	0.02500		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0275		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0261		ma/ka wet	0.02500		105	30-150			
							100			
Aroclor 1016	0.5	0.02	ma/ka wet	0.5000		101	40-140	4	30	
Aroclor 1016 [2C]	0.6	0.02	ma/ka wet	0.5000		121	40-140	3	30	
Aroclor 1260	0.6	0.02	ma/ka wet	0.5000		116	40-140	3	30	
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		119	40-140	2	30	
··· • • • •			5,							
Surrogate: Decachlorobiphenyl	0.0261		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0274		mg/kg wet	0.02500		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0258		mg/kg wet	0.02500		103	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0020

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
S-	Surrogate recovery(ies) below lower control limit (S-).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0020

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 19J0020	
Shipped/Delivered Via: ESS Courier	Date Received: 10/1/2019 Project Due Date: 10/8/2019 Days for Project: 5 Day	
1. Air bill manifest present? No No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM?	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes Temp: 0.4 Iced with: Ice	 Were labs informed about <u>short holds & rushes</u>? Were any analyses received outside of hold time? 	Yes / No (NA) Yes (Ng
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / Ng ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	<u> </u>
Sample Receiving Notes:		

8oz jars rec'd with holes drilled into caps. Inside barriers intact.

Yes / No Yes / No te: Time:	Ву:
1	Ves / No Yes / No te: Time:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	393711	Yes	NA	Yes	8 oz. Jar - Unpres	 NP	
02	393710	Yes	NA	Yes	8 oz. Jar - Unnres		
03	393709	Yes	NA	Yes	8 oz. Jar - Unpres	ND	
04	393708	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
05	393707	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
06	393706	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
07	393705	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
08	393704	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
09	393703	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
10	393702	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
11	393701	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
12	393700	Yes	NA	Yes	8 oz. Jar - Unpres	NP	
13	393699	Yes	NA	Yes	8 oz. Jar - Unnres	NP	
14	393698	Yes	NA	Yes	8 oz. Jar - Unpres	ND	
15	393697	Yes	NA	Yes	8 oz. Jar - Unpres	NĐ	
16	393696	Yes	NA	Yes	8 oz. Jar - Unpres		
17	393695	Yes	NA	Yes	8 oz. Jar - Unpres	ND	
18	393694	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
19	393693	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
20	393692	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM		ESS Project ID:	19J0020
Were all containers scanned into storage/lab?	Initials	Date Received:	10/1/2019
Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled?		Yes / No. Yes / No / NA	
Are all Hex Chrome stickers attached? Are all QC stickers attached?		Yes / No / NA Yes / No / NA	
Are VOA stickers attached if bubbles noted?		Yes / No / NA	
Completed			
Reviewed	Date & Time:		1950
By:	Date & Time:	10/1/9	
By:		10/1/19	2000
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Division o	f Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush	Report	ng				D 0./	a				
185 Franc	æs Avenue, Ci	anston RI 0291	10	Regulatory State	Rhode Island		Limit	5			PCBS < 0.5 htg/kg					
Tel. (401)	461-7181 Fa	x (401) 461-44	86	ls th	is project for any of the follo	wing?:	Elector	nic 🗆] Limit Chec	:ker	er Standard Excel					
www.essla	aboratory.com			O CT RCP				bles 🛛] Other (Ple	ase Specify	′→)			PDF		
	Col	mpany Name		Project #	Project Na									T		
	Coneco Eng	gineers and Sci	ientists	5675.F	Pawtucket 1 Control House, 6 Thomton Ave, Pawtucket Ri											
		Mark Zoller			4 First Street		/sis									
	City		S	tate	Zip Code	PO#	L al									
	Bridgewate	эг		MA	02324	5675.F	Ā									
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ESS Lab	Collection	Collection		1	No Francesco	ista/coneco.com		8 S								
ID	Date	Time	Sample Type	Sample Matrix	San	nple ID		l 🏹 📔								
01	9/26/19	8:00 a m	Grah	Solid	105.03	-19 (0.5-1)		$\overline{\mathbf{v}}$						+-+	+	
	3/20/13	0.00 a.m.		00110		-19 (0.0-1)										
02	9/26/19	8:05 a.m.	Grab	Solid	ICS-03	3-19 (1-2)		X								
03	9/26/19	8:10 a.m.	Grab	Solid	ICS-03	3-19 (2-3)		х								
04	9/26/19	8:15 a.m.	Grab	Solid	ICS-03	-21 (0.5-1)		x								
05	9/26/19	8:20 a.m.	Grab	Solid	ICS-03	3-21 (1-2)		X								
06	9/26/19	8:25 a.m.	Grab	Solid	ICS-03	3-21 (2-3)		x								
07	9/26/19	8:30 a.m.	Grab	Solid	ICS-03-	-38 (0.5-1)		x								
08	9/26/19	8:35 a.m.	Grab	Solid	ICS-03	3-38 (1-2)		x								
09	9/26/19	8:40 a.m.	Grab	Solid	ICS-03	3-38 (2-3)		х								
10	9/26/19	8:45 a.m.	Grab	Solid	ICS-03-	43 (0-0.5)		х								
Co	ntainer Type:	AC-Air Cassett	e AG-Amber Glas	s B-BOD Bottle C	C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	rile V-Vial	AG								
Conta	iner Volume:	1-100 mL 2-	2.5 gal 3-250 mL	. 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	10								
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaC	H 9-NH4CI 10-DI H2O	11-Other*	11								
					Numbe	r of Containers per	Sample:	1								
		Laboratory	Use Only		Sampled by : DJD/MJN	1										
Cooler	Present:				Comments:	Please spe	cify "Othe	r" pres	ervative	and con	tainers f	vpes in	this sp	ace		
Seals	: Intact:	na				•							P			
	, intaot.	1014	- In lo 1	1.11	National G	irid Project, Use Man	ual Soxhlet	Extract	ion per E	PA Meth	od 3540,	Report	Dry We	ight, 11=	-ice	
Cooler Te	emperature:		°C KC deing	0.7	Homogeni	ze Sample TSCA Re	quirements	Provid	e Full Da	ta Packa	ge					
Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time)	Relinquished By:	(Signature	, Date &	& Time)	$\Box \Delta$	Receiv	ed By: (Signatu	re, Date	& Tim	e)
Drum Flynnon 9/30/19 1:17 am 2 24				MZAL	12 10/119 12:36 ANCE 10/1/19 16:37 1 10/10/191022											
Relinquished by: (Signature, Date & Time) Received By:				Received By: (Signature, Date & Time)	me) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date & Time)						e)				

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ESS L	abulatory						Banarti	ng										
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185 France	es Avenue, Cra	ansion RI 0291		Regulatory State	s project for any of the follow	vina?:	Elector							el				
1 el. (401) /	401-/101 Fax	(401) 401-440	00	O CT RCP		RGP	Delivera	bles	🖸 Oth	er (Pleas	Specify -	→)						
www.essia	Con	nnany Name		Project #	Project Na	ne		1		1								
	Coneco Eng	ineers and Sci	entists	5675.F	Pawtucket 1 Control House	_			1									
	Cor	ntact Person Mark Zoller			Address 4 First Street	lysis												
	City		S	ate	Zip Code	Ana												
	Bridgewate	r There		/A	02324 Email Addr	5675.F	- `	2	R								1	
	508-697-319	nder 31	FAA I	umber	jaevazalis, mzoller,kloftu	s@coneco.com		ğ	80									
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	DDIFrancisco Sam	pte ID	,	PCBS	PCBs									
11	9/26/19	8:50 a.m.	Grab	Solid	ICS-03-	43 (0.5-1)		X										
12	9/26/19	8:55 a.m.	Grab	Solid	ICS-03	-43 (1-2)		X										
13	9/26/19	9:00 a.m.	Grab	Solid	ICS-03	-43 (2-3)		X										
14	9/26/19	9:05 a.m.	Grab	Solid	ICS-03-	40 (0.5-1)		X										
15	9/26/19	9:10 a.m.	Grab	Solid	ICS-03		X											
16	9/26/19	9:15 a.m.	Grab	Solid	ICS-03		х											
17	9/26/19	9:20 a.m.	Grab	Solid	ICS-03	-40 (3-4)		X								\vdash		
18	9/26/19	9:25 a.m.	Grab	Solid	ICS	-03-44			x							┝━┠╴		
19	9/29/19	9:30 a.m.	Grab	Solid	ICS	-03-45	<u> </u>		X									
20	9/29/19	9:35 a.m.	Grab	Solid	ICS	-03-46			X		<u> </u> _					┥		
Co	ntainer Type:	AC-Air Cassel	te AG-Amber Gla	ass B-BOD Bottle	C-Cubitainer J-Jar O-Otl	ner P-Poly S-Ste	erile V-Via	I AG	AG		- <u> </u> -			+		┝──┠━		
Conta	ainer Volume:	1-100 mL 2	~2.5 gal 3-250 ml	_ 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other	" 10	9	_	┢──┠┈					┝━╋╴		+
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-I	MeOH 7-Na2S2O3 8-ZnAce, NaOl	H 9-NH4CI 10-DI H20	D 11-Other*	11	11		┢━╋					┢━╇╴		
					Numbe	r of Containers per	Sample:	1	1	_								
-		Laborator	y Use Only		Sampled by : HML	DTD/MJT	3								<u> </u>			
Cooler	r Present:	1			Comments:	Please s	ecify "Oth	er" p	resen	ative a	nd con	tainers	types i	n this s	pace			
Seal	s Intact:	NAG.	- -	t	National Grid Project, Use Ma	nual Soxhlet Extract	ion per EP/	A Mei	hod 3	540, Re	port Dŋ	y Weigh	t, 11=io	e				
Cooler To	emperature:		°C Ketemp	. 0.4	Homogenize Sample TSCA R	equirements, Provid	e Full Data	FPac	kage									
Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time)						Relinquished B	y: (Signatur	e, Da	te & T	ime)		Recei	ved By:	(Signat	ure, Da	te & Ti	me)	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 19J0021

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:36 pm, Oct 09, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0021

SAMPLE RECEIPT

The following samples were received on October 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
19J0021-01	ICS-03-47	Solid	8082A
19J0021-02	ICS-03-48	Solid	8082A
19J0021-03	ICS-01-60	Solid	8082A
19J0021-04	ICS-01-61	Solid	8082A
19J0021-05	ICS-01-62	Solid	8082A
19J0021-06	ICS-01-63	Solid	8082A
19J0021-07	ICS-01-64	Solid	8082A
19J0021-08	ICS-04-17	Solid	8082A
19J0021-09	ICS-04-18	Solid	8082A
19J0021-10	ICS-04-19	Solid	8082A
19J0021-11	ICS-04-20	Solid	8082A
19J0021-12	DUP-09	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0021

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0021

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-47 Date Sampled: 09/26/19 09:40 Percent Solids: 99 Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 15:54	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
Aroclor 1260 [2C]	2.6 (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 15:54	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		102 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		108 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-48 Date Sampled: 09/26/19 09:45 Percent Solids: 99 Initial Volume: 5.56 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 16:13	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
Aroclor 1232	ND (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
Aroclor 1242	ND (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
Aroclor 1248	ND (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
Aroclor 1254	ND (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
Aroclor 1260	0.9 (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
Aroclor 1262	ND (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
Aroclor 1268	ND (0.09)		8082A		1	10/07/19 16:13	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		105 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-60 Date Sampled: 09/27/19 08:00 Percent Solids: 100 Initial Volume: 5.46 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 16:32	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
Aroclor 1232	ND (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
Aroclor 1242	ND (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
Aroclor 1248	ND (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
Aroclor 1254	ND (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
Aroclor 1260 [2C]	0.3 (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
Aroclor 1262	ND (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
Aroclor 1268	ND (0.09)		8082A		1	10/07/19 16:32	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		111 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		104 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-61 Date Sampled: 09/27/19 08:05 Percent Solids: 100 Initial Volume: 5.35 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 16:52	Sequence C9J0157	Batch CJ90208
Aroclor 1221	ND (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
Aroclor 1232	ND (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
Aroclor 1242	ND (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
Aroclor 1248	ND (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
Aroclor 1254	ND (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
Aroclor 1260 [2C]	0.3 (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
Aroclor 1262	ND (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
Aroclor 1268	ND (0.09)		8082A		1	10/07/19 16:52	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		91 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		104 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		110 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-62 Date Sampled: 09/27/19 08:10 Percent Solids: 100 Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 17:11	Sequence C9J0157	Batch CJ90208
Aroclor 1221	ND (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
Aroclor 1232	ND (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
Aroclor 1242	ND (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
Aroclor 1248	ND (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
Aroclor 1254	ND (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
Aroclor 1260 [2C]	0.3 (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
Aroclor 1262	ND (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
Aroclor 1268	ND (0.09)		8082A		1	10/07/19 17:11	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>92 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		104 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		105 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-63 Date Sampled: 09/27/19 08:15 Percent Solids: 99 Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 18:08	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 18:08	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-64 Date Sampled: 09/27/19 08:20 Percent Solids: 99 Initial Volume: 5.47 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 18:28	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
Aroclor 1232	ND (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
Aroclor 1242	ND (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
Aroclor 1248	ND (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
Aroclor 1254	ND (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
Aroclor 1260	0.1 (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
Aroclor 1262	ND (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
Aroclor 1268	ND (0.09)		8082A		1	10/07/19 18:28	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-17 Date Sampled: 09/27/19 08:25 Percent Solids: 99 Initial Volume: 5.42 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 18:47	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
Aroclor 1232	ND (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
Aroclor 1242	ND (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
Aroclor 1248	ND (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
Aroclor 1254	ND (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
Aroclor 1260	0.6 (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
Aroclor 1262	ND (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
Aroclor 1268	ND (0.09)		8082A		1	10/07/19 18:47	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-18 Date Sampled: 09/27/19 08:30 Percent Solids: 99 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 21:01	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-19 Date Sampled: 09/27/19 08:35 Percent Solids: 99 Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 21:20	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
Aroclor 1260 [2C]	0.6 (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 21:20	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-20 Date Sampled: 09/27/19 08:40 Percent Solids: 99 Initial Volume: 5.24 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-11 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 21:39	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
Aroclor 1260 [2C]	0.9 (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 21:39	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-09 Date Sampled: 09/27/19 08:45 Percent Solids: 99 Initial Volume: 5.32 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0021 ESS Laboratory Sample ID: 19J0021-12 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 21:58	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
Aroclor 1260	0.2 (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 21:58	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		60 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0021

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ90208 - 3540C										
Blank	ND	0.02	ma/ka wat							
Aroclor 1016	ND	0.02	mg/kg wet							
Arocior 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0258		mg/kg wet	0.02500		103	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		105	40-140			
Aroclor 1016 [2C]	0.6	0.02	mg/kg wet	0.5000		125	40-140			
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		119	40-140			
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		122	40-140			
Surrogate: Decachlorobiphenyl	0.0258		mg/kg wet	0.02500		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.02/5		mg/kg wet	0.02500		110	30-150			
Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90 105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0261		mg/kg wet	0.02500		105	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		101	40-140	4	30	
Aroclor 1016 [2C]	0.6	0.02	mg/kg wet	0.5000		121	40-140	3	30	
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		116	40-140	3	30	
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		119	40-140	2	30	
Surrogate: Decachlorobiphenvl	0.0261		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0274		mg/kg wet	0.02500		109	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0258		mg/kg wet	0.02500		103	30-150			
Matrix Spike Source: 1910021-05										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0021

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ90208 - 3540C										
Aroclor 1016	1.7	0.1	mg/kg dry	1.933	ND	88	40-140			
Aroclor 1016 [2C]	2.0	0.1	mg/kg dry	1.933	ND	104	40-140			
Aroclor 1260	2.1	0.1	mg/kg dry	1.933	0.3	89	40-140			
Aroclor 1260 [2C]	2.1	0.1	mg/kg dry	1.933	0.3	92	40-140			
Surrogate: Decachlorobiphenyl	0.0821		mg/kg dry	0.09664		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0939		mg/kg dry	0.09664		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0755		mg/kg dry	0.09664		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0896		mg/kg dry	0.09664		93	30-150			
Matrix Spike Source: 1930021-12										
Aroclor 1016	1.4	0.09	mg/kg dry	1.896	ND	76	40-140			
Aroclor 1016 [2C]	1.7	0.09	mg/kg dry	1.896	ND	91	40-140			
Aroclor 1260	1.6	0.09	mg/kg dry	1.896	0.2	75	40-140			
Aroclor 1260 [2C]	1.7	0.09	mg/kg dry	1.896	0.1	84	40-140			
Surrogate: Decachlorobiphenvl	0.0722		mg/kg dry	0.09479		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0829		mg/kg dry	0.09479		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0658		mg/kg dry	0.09479		69	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0764		mg/kg dry	0.09479		81	30-150			
Matrix Spike Dup Source: 1930021-05										
Aroclor 1016	1.5	0.09	mg/kg dry	1.821	ND	83	40-140	12	30	
Aroclor 1016 [2C]	1.8	0.09	mg/kg dry	1.821	ND	100	40-140	10	30	
Aroclor 1260	1.8	0.09	mg/kg dry	1.821	0.3	82	40-140	12	30	
Aroclor 1260 [2C]	1.9	0.09	mg/kg dry	1.821	0.3	86	40-140	11	30	
Surrogate: Decachlorobiphenyl	0.0748		mg/kg dry	0.09103		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0831		mg/kg dry	0.09103		91	30-150			
Surrogate: Tetrachloro-m-xylene	0.0693		mg/kg dry	0.09103		76	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0805		mg/kg dry	0.09103		88	30-150			
Matrix Spike Dup Source: 1930021-12										
Aroclor 1016	1.6	0.1	mg/kg dry	1.993	ND	80	40-140	10	30	
Aroclor 1016 [2C]	1.9	0.1	mg/kg dry	1.993	ND	93	40-140	8	30	
Aroclor 1260	1.7	0.1	mg/kg dry	1.993	0.2	77	40-140	6	30	
Aroclor 1260 [2C]	1.8	0.1	mg/kg dry	1.993	0.1	84	40-140	5	30	
Surrogate: Decachlorobiphenvl	0.0781		mg/kg dry	0.09963		78	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0879		mg/kg dry	0.09963		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0726		mg/kg dry	0.09963		73	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0822		mg/kg dry	0.09963		83	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0021

Notes and Definitions

II	Analyte included in the analysis, but not detected
	Analyte included in the analysis, but not detected Analyte NOT DETECTED at or above the MPL (LOO) LOD for DoD Penerts MDL for L Elegged Analytes
dry	Sample results reported on a dry weight basis
	Relative Percent Difference
MDI	Method Detection Limit
MRL	Method Benerting Limit
LOD	Limit of Detection
LOQ	Limit of Detection
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NK	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0021

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Sury - KPB/TB/MM	ESS Project ID	
Shipped/Delivered Via:ESS Courier	Date Received: 19J0021 Date Received: 10/1/2019 Project Due Date: 10/8/2019 Days for Project: 6 Days	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No NA
Temp: <u>0.4</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes / 10
11. Any Subcontracting needed? Yes / No ESS Sample IDs:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely? Time:	Yes / R Yes / No Yes / No / NA
14. Was there a need to contact Project Manager? Yes No a. Was there a need to contact the client? Yes No Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608
01 02 03 04 05 06 07 08 09 10 11 12	393723 393722 393721 393720 393719 393718 393717 393716 393716 393715 393714 393713 393712	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	NA NA NA NA NA NA NA NA NA	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	4 oz. Jar - Unpres 4 oz. Jar - Unpres	NP NP NP NP NP NP NP NP NP NP NP NP NP	

2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?

Initials No N٥. Yes / No. Yes / No Yes / No đΑ

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco Engineers, Scientists & Surv - KPB/TB/MM		ESS Project ID:	19J0021	
Completed			Date Received:	10/1/2019	
By:		Date & Time:	10/1/19	1935	
Reviewed			11	<u> </u>	
By:		Date & Time:	10/119	2053	
By:	(\mathcal{N})		is lice	20-7	
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ESS L	aboratory	/		C	HAIN OF CUSTO	Y	ESS La	b #	jC	130	<u>```</u> ````	21				
Division of	۔ Thielsch Engi	neering, Inc.		Turn Time	5-Day Rush		Reporti	ng	Ľ		<u> </u>					
185 Franc	es Avenue, Cra	anston RI 0291	10	Regulatory State	Rhode Island			5				PCB\$ < 0.5 mg/kg				
Tel. (401)	461-7181 Fax	x (401) 461-44	86	ls thi	this project for any of the following?:			nic	🗆 Limi	: Checker	r Standard Excel					
www.essla	boratory.com			O CT RCP	O MA MCP O	RGP	Deliveral	bles	⊡ Othe	er (Please	Specify -	*))F	<u> </u>
	Coneco Enc	npany Name sineers and Sci	ientists	Project # 5675.F	Project Na Pawtucket 1 Control House, 6 Tho	IME ornton Ave. Pawtucket RI										
	Cor	ntact Person			Address 4 First Street		l sis									
	City		S	tate	Zip Code	PO #	Analy									
μ—ī	elephone Nur	nber	FAX I	Number	Email Addr	ress	1	082	۵							
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Defining San	nple ID		PCBs 8	SW/SW							
01	9/26/19	9:40 a.m.	Grab	Solid	ICS	-03-47		x								
02	9/26/19	9:45 a.m.	Grab	Solid	ICS	-03-48		x								
03	9/27/19	8:00 a.m.	Grab	Solid	ICS	-01-60		x								
04	9/27/19	8:05 a.m.	Grab	Solid	ICS	-01-61		х								
05	9/27/ 19	8:10 a.m.	Grab	Solid	ICS	-01-62		х	х							
06	9/27/19	8:15 a.m.	Grab	Solid	ICS	-01-63		x								
07	9/27/19	8:20 a.m.	Grab	Solid	ICS	-01-64		x								
08	9/27/19	8:25 a.m.	Grab	Solid	ICS	-04-17		X								
09	9/27/19	8:30 a.m.	Grab	Solid	ICS	-04-18		x					\downarrow			
10	9/27/19	8:35 a.m.	Grab	Solid	ICS	-04-19		X								
Co	ntain er Type:	AC-Air Casset	tte AG-Amber Glas	s B-BOD Bottle (C-Cubitainer G - Glass O-C	ther P-Poly S-Ste	rile V-Vial	AG								
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 ml	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	2 9-4 oz 10-8 oz	11-Other*	9							1	
Prese	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaC	DH 9-NH4CI 10-DI H2C) 11-Other*	11							\rightarrow	
					Numbe	er of Containers per	Sample:	1					<u> </u>			
		Laborator	y Use Only		Sampled by : DJD/MJN	И										
Cooler	Present:	/			Comments:	Please sp	ecify "Othe	er" pi	eserva	ative ar	nd conta	ainers ty	/pes in ti	his space		
Seal	s Intact:	MA	no la la Or	0.11	National G	Grid Project, Use Man	ual Soxhlet	Extra	action	ber EPA	A Metho	d 3540,	Report D	ry Weight	11=ice	
Cooler T	emperature:	/Cianatura Da	C ((Q.Jerry P)	U - 7	Homogen	ize Sample TSCA Re	quirements	, Pro	vide Fu	ull Data	Packag		ad By: (S	ionature (T & ate(ime)
		(Signature, Da	$\frac{19}{19}$ 1710-		T lahllo 12:34			116 116		37	$\left(\right)$		Intil	G /	637	
Pan	linguished by	(Signature De	//////////////////////////////////////	Received By:	(Signature Date & Time)	Relinquished By	: (Signature	<u>)</u> Daf	e&Tir	ne)			ed By: (S	ianature I	Date & T	ime)
	anguionoù by.	(Oignature, De		- Received By.	(- comquined by		,						<u>.</u>		
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ESS L	aboratory CHAIN OF CUSTODY						ESS Lai	o #		19	500	521				
Division of	Thielsch Enai	neerina. Inc.		Turn Time	5-Day Rush	5-Day Rush Re				<u> </u>	PCBs < 0.5 mo/kg				<u> </u>	
185 France	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island		Limits	;				-003 - 1	J.J mg/kg			
Tel. (401)	461-7181 Fax	k (401) 461-44	86	Is thi	is project for any of the following?:			ic	🗆 Limi	: Checker				a -		
www.essla	boratory.com	· ·		O CT RCP	O MA MCP O I	RGP	Deliverat	les	⊡ Othe	r (Please Sp	xecify →)					7 -
	Cor	npany Name	· · · · · · · · · · · · · · · · · · ·	Project #	Project Nar Deutuskot 1 Control House	beech R										
	Coneco Eng	ineers and Sci tact Person		5675.F	Address	, o momon Arc, ia	<u>.</u>									
	A N	Aark Zoller			4 First Street		lys									
	City		Si	tate	Zip Code	PO #	Ana									
	Bridgewate	r mber	FAX	//A.	Email Address			82								
	508-697-31	91			jaevazalis, mzoller, kloftu	s@coneco.com		8	<u>8</u>							
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	DDiFrancesco Sam	ple ID		PCB	WS/N							
11	9/27/19	8:40 a.m.	Grab	Solid	ICS-	04-20		х								
12	9/27/19	8:45 a.m.	Grab	Solid	DU	P-09		х	х							
	· · · · ·															
	-															
. Co	ntainer Type:	AC-Air Casse	tte AG-Amber Gla	ass B-BOD Bottle	C-Cubitainer J-Jar O-Oth	ner P-Poly S-Ster	rile V-Vial	AG								┇
Conta	iner Volume:	1-100 mL 2	2-2.5 gal 3-250 ml	_ 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9								<u>↓</u>
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-	MeOH 7-Na2S2O3 8-ZnAce, NaOl	H 9-NH4CI 10-DI H2O	11-Other*	11								<u> -</u>
					(S) Numbe	r of Containers per	Sample:	1								1_1_
		Laborator	y Use Only		Sampled by : Kill D	D/MJM										
Coolei	r Present:		-		Comments:	7 Please sp	ecify "Othe	er" pi	eserv	ative and	contain	ers types	in this sp	ace		
Seal	s Intact:		- Carla a	in il	National Grid Project, Use Ma	nual Soxhlet Extractio	on per EPA	Metl	nod 35	40, Repo	rt Dry We	eight, 11=	ice			
Cooler T	emperature:		°C IICterup,		Homogenize Sample TSCA R	equirements, Provide	Full Data	F Dat	<u> </u>			ceived B	v: (Signati	ire Date	× Tim	<u>e)</u>
Relinquished by: (Signature, Date & Time) Received By: (S				(Signature, Date & Time)			-, Dal			$\left(\right)^{n}$	Ceiveu D					
Dresin Stemmen 9/30/17 1:19 0.0 200-				2 10/1/19 13:36	2Ah	10/1/19	<i>i</i> <i>i</i>	6.3	7	Ý		<u>0[1]19</u>	6	48		
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	: (Signature	e, Dai	e & Ti	me)		ceived B	y: (Signati	ire, Date	; ox i im	e)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20A0099

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:29 pm, Jan 15, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0099

SAMPLE RECEIPT

The following samples were received on January 07, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20A0099-01	ICS-03-52	Solid	8082A
20A0099-02	ICS-03-53	Solid	8082A
20A0099-03	ICS-03-54	Solid	8082A
20A0099-04	ICS-03-55	Solid	8082A
20A0099-05	ICS-03-56	Solid	8082A
20A0099-06	ICS-04-21	Solid	8082A
20A0099-07	ICS-04-22	Solid	8082A
20A0099-08	ICS-04-23	Solid	8082A
20A0099-09	ICS-04-24	Solid	8082A
20A0099-10	ICS-01-65	Solid	8082A
20A0099-11	ICS-01-66	Solid	8082A
20A0099-12	ICS-01-67	Solid	8082A
20A0099-13	ICS-01-68	Solid	8082A
20A0099-14	ICS-01-69	Solid	8082A
20A0099-15	ICS-01-70	Solid	8082A
20A0099-16	ICS-01-71	Solid	8082A
20A0099-17	ICS-01-72	Solid	8082A
20A0099-18	ICS-01-73	Solid	8082A
20A0099-19	DUP-10	Solid	8082A
20A0099-20	DUP-11	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0099

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 20A0099

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-52 Date Sampled: 01/03/20 13:15 Percent Solids: 99 Initial Volume: 5.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 16:16	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 16:16	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>85 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-53 Date Sampled: 01/03/20 13:20 Percent Solids: 99 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 16:36	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
Aroclor 1260	0.6 (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 16:36	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>85 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-54 Date Sampled: 01/03/20 13:25 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 16:55	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
Aroclor 1260	0.6 (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 16:55	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-55 Date Sampled: 01/03/20 13:30 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 17:14	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
Aroclor 1260	0.9 (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 17:14	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>96 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-56 Date Sampled: 01/03/20 13:35 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 17:34	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
Aroclor 1260	0.3 (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 17:34	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		79 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-21 Date Sampled: 01/03/20 13:40 Percent Solids: 99 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 17:53	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 17:53	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-22 Date Sampled: 01/03/20 13:45 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 18:13	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
Aroclor 1254 [2C]	0.4 (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
Aroclor 1260 [2C]	0.4 (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 18:13	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-23 Date Sampled: 01/03/20 13:50 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 18:32	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 18:32	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		60 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-24 Date Sampled: 01/03/20 13:55 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 18:51	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
Aroclor 1260	0.3 (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 18:51	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>85 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>97 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-65 Date Sampled: 01/03/20 14:00 Percent Solids: 98 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 19:10	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
Aroclor 1260 [2C]	0.1 (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 19:10	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>93 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-66 Date Sampled: 01/03/20 14:05 Percent Solids: 99 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-11 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 19:30	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
Aroclor 1260	0.3 (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 19:30	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		103 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		106 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-67 Date Sampled: 01/03/20 14:10 Percent Solids: 92 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-12 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 19:49	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
Aroclor 1260 [2C]	1.4 (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 19:49	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-68 Date Sampled: 01/03/20 14:15 Percent Solids: 95 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-13 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 20:08	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
Aroclor 1260	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 20:08	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>59 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		62 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>49 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		63 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-69 Date Sampled: 01/03/20 14:20 Percent Solids: 98 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-14 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 23:00	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
Aroclor 1254 [2C]	0.4 (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
Aroclor 1260 [2C]	0.6 (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 23:00	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-70 Date Sampled: 01/03/20 14:25 Percent Solids: 98 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-15 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 23:19	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
Aroclor 1254 [2C]	0.7 (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
Aroclor 1260 [2C]	1.0 (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 23:19	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>92 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-71 Date Sampled: 01/03/20 14:30 Percent Solids: 97 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-16 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 23:38	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
Aroclor 1254 [2C]	0.5 (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
Aroclor 1260 [2C]	0.7 (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 23:38	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-72 Date Sampled: 01/03/20 14:35 Percent Solids: 98 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-17 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/10/20 23:57	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
Aroclor 1260	ND (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
Aroclor 1262	0.3 (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/10/20 23:57	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		103 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-73 Date Sampled: 01/03/20 14:40 Percent Solids: 95 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-18 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/13/20 15:45

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/14/20 10:32	Sequence C0A0196	<u>Batch</u> CA01342
Aroclor 1221	ND (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
Aroclor 1232	ND (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
Aroclor 1242	ND (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
Aroclor 1248	ND (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
Aroclor 1260 [2C]	0.1 (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
Aroclor 1262	ND (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
Aroclor 1268	ND (0.1)		8082A		1	01/14/20 10:32	C0A0196	CA01342
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		51 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		52 %		30-150				
Surrogate: Tetrachloro-m-xylene		50 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-10 Date Sampled: 01/03/20 14:45 Percent Solids: 98 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-19 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/11/20 0:36	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
Aroclor 1254	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
Aroclor 1260	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
Aroclor 1262	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/11/20 0:36	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-11 Date Sampled: 01/03/20 14:50 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0099 ESS Laboratory Sample ID: 20A0099-20 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/11/20 0:55	Sequence C0A0149	<u>Batch</u> CA00824
Aroclor 1221	ND (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
Aroclor 1232	ND (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
Aroclor 1242	ND (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
Aroclor 1248	ND (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
Aroclor 1260	ND (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
Aroclor 1262	0.4 (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
Aroclor 1268	ND (0.1)		8082A		1	01/11/20 0:55	C0A0149	CA00824
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0099

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CA00824 - 3540C										
Blank		0.00								
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0188		mg/kg wet	0.02500		75	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene	0.0191		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0219		mg/kg wet	0.02500		88	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		74	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		74	40-140			
	0.0212			0.03500		05	20.150			
Surrogate: Decachlorobiphenyl	0.0213		mg/kg wet	0.02500		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0247		mg/kg wet	0.02500		99	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		91	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	5	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		80	40-140	8	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		80	40-140	8	30	
Surrogate: Decachlorobinhenvl	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0231		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0259		mg/kg wet	0.02500		103	30-150			
Batch CA01342 - 3540C										
Battii CAU1342 - 334UL										

Fax: 401-461-4486 <u>h</u> ◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0099

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Polv	chlorinated E	Biphenvls	(PCB)					
					. /					
Batch CA01342 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0264		mg/kg wet	0.02500		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0282		mg/kg wet	0.02500		113	30-150			
Surrogate: Tetrachloro-m-xylene	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0253		mg/kg wet	0.02500		101	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Currentes Description	0.0273		ma/ka wet	0.02500		1/19	30-150			
Surrogate: Decachlorobiphenyl	0.0275		mg/kg wet	0.02500		105	30-150			
Surroyate: Decachioropiphenyi [2C]	0.0236		mg/ka wet	0.02500		95	30-150			
Surrogate: Tetrachloro-m-wilong [20]	0.0255		mg/kg wet	0.02500		102	30-150			
			3, 3							
Aroclor 1016	0.5	0.02	ma/ka wet	0.5000		92	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	ma/ka wet	0.5000		91	40-140	4	30	
Aroclor 1260	0.4	0.02	mg/ka wet	0.5000		90	40-140	3	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	3	30	
Surrogate: Decachlorobiphenyl	0.0260		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0275		mg/kg wet	0.02500		110	30-150			
Surrogate: Tetrachloro-m-xylene	0.0222		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0240		mg/kg wet	0.02500		96	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0099

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0099

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID:20A0099	
Shipped/Delivered Via: ESS Courier	Date Received: 1/7/2020 Project Due Date: 1/13/2020 Davs for Project: 5 Dav	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / NA
Temp: <u>3.5</u> loed with: <u>loe</u>	10. Were any analyses received outside of hold time?	Yes /No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes / a. Was there a need to contact the client? Yes / Who was contacted? Date:	No Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 60) Pesticides)
1	776	Yes	N/A	Yes	4 oz. Jar	NP	
2	777	Yes	N/A	Yes	4 oz. Jar	NP	
3	778	Yes	N/A	Yes	4 oz. Jar	NP	
4	779	Yes	N/A	Yes	4 oz. Jar	NP	
5	780	Yes	N/A	Yes	4 oz. Jar	NP	
6	781	Yes	N/A	Yes	4 oz. Jar	NP	
7	782	Yes	N/A	Yes	4 oz. Jar	NP	
8	783	Yes	N/A	Yes	4 oz. Jar	NP	
9	784	Yes	N/A	Yes	4 oz. Jar	NP	
10	785	Yes	N/A	Yes	4 oz. Jar	NP	
11	786	Yes	N/A	Yes	4 oz. Jar	NP	
12	787	Yes	N/A	Yes	4 oz. Jar	NP	
13	788	Yes	N/A	Yes	4 oz. Jar	NP	
14	789	Yes	N/A	Yes	4 oz. Jar	NP	
15	790	Yes	N/A	Yes	4 oz. Jar	NP	
16	791	Yes	N/A	Yes	4 oz. Jar	NP	
17	792	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist


ESS Laboratory CHAIN OF CUSTODY						YC	ESS La	b #	A	CAC	090	<u>}</u>		
Division of	- Thielsch Engi	neering, Inc.		Turn Time	5-Day Rush		Reporti	Reporting <0.5 mg/kg						
185 Franc	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island		Limit	5						
Tel. (401)	461-7181 Fa	x (401) 461-44	86	Is thi	is project for any of the follow	wing?:	Electonic Limit Checker					🔲 Standard I	Excel	
www.essla	boratory.com		<u>.</u>	O CT RCP	O MA MCP O	Delivera	Deliverables ☐ Other (Please Specify →) PDF					· · · · · · · ·		
	Concos Er	npany Name	ntinto	Project #	Project Na Pawtucket Control House, 6 Thor	i me ton Ave. Pawtucket RI								
	Coneco El	igineers a scie		0070.1	Address	<u>ي</u> .								
	Λ	Aark Zoller			4 First Street	- All								
	City	-	St Massa	ate	Zip Code	PO #	Ana	8						
T	elephone Nu	mber	FAX	lumber	Email Addr	ress	_) 80						
	(508) 697-31	91			Jaevaelis, Mzoller, Kloftus, Ddifra	ancesco@coneco.com		ا گ						
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	San	nple ID		E E E E E E E E						
01	1/3/2020	1:15 p.m.	Grab	Solid	ICS	-03-52		X						
02	1/3/2020	1:20 p.m.	Grab	Solid	ICS	-03-53		X						
03	1/3/2020	1:25 p.m.	Grab	Solid	ICS	-03-54		X	_					
04	1/3/2020	1:30 p.m.	Grab	Solid	ICS	-03-55		X						
05	1/3/2020	1:35 p.m.	Grab	Solid	ICS		X			-				
06	1/3/2020	1:40 p.m.	Grab	Solid	ICS		x							
07	1/3/2020	1:45 p.m.	Grab	Solid	ICS	-04-22		X						_
08	1/3/2020	1:50 p.m.	Grab	Solid	ICS	-04-23		X						
09	1/3/2020	1:55 p.m.	Grab	Solid	ICS	-04-24		x			_			
10	1/3/2020	2:00 p.m.	Grab	Solid	ICS	-01-65	*1	x						
Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	erile V-Vial	AG						
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 mL	. 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	2 9-4 oz 10-8 oz	11-Other	9				\downarrow		<u></u>
Prese	rvation Code:	1-Non Preserved	1 2-HC1 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce NaC	OH 9-NH4CI 10-DI H20	0 11-Other*	11				┨╴╎╼╋		_ <u>_</u>
				<i>"</i>	Numbe	er of Containers per	Sample:	1						
		Laborator	y Use Only		Sampled by : DJD/CKL									
Cooler	Present:		-		Comments:	Please sp	ecify "Oth	er" pre	servative	and cont	ainers typ	oes in this s	space	
Seal	s Intact:				National Grid Project, Use Ma	anual Soxhlet Extract	ion per EPA	Metho	od 3540, F	Report Dry	Weight, 1	1=ice		
Cooler T	emperature:	315	°C		Homogenize Sample TSCA R	Requirements, Provid	e Full Data	Packag	je				i	
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	r: (Signatur	e, Date	& Time)	/	Received	I By: (Signa	ture, Date &	<u> k</u> Time)
Demuil Damman 116/2020 mon					La 1/2 11:20	Inch	- 1/2	15	pS		AA	- 171.	20 15	09
- Re	linquished by:	(Signature, Da	ate & Time)	Received By:	ceived By: (Signature, Date & Time) Relinquished By				ed By: (Signature, Date & Time) eceived By: (Signature, Date & Time)				k Time)	
of 32							_			ν.				

ESS Laboratory				с	HAIN OF CUSTOD	ESS Lab # 20A099									
Division of	Thielsch Engi	neering, Inc.		Turn Time	5-Day Rush		Reporting <0.5 mg/kg								
185 France	es Avenue, Cra	anston RI 0291	0	Regulatory State	Rhode Island	Limit	<u>s</u>								
Tel. (401)	461-7181 Fax	k (401) 461-448	36	Is thi	s project for any of the follow	Elector									
www.essla	boratory.com			DUI RUP	Project Nar	me	Denvera							1-1	
	Coneco En	npany Name mineers & Scie	ntists	5675.F	Pawtucket Control House	, 6 Thorton Ave,									
	Cor	ntact Person			Address 4 First Street	/sis									
		lark Zoller	S	tate	Zip Code										
Bridgewater Massachusetts			chusetts	02324	_	808						1 1	1		
Telephone Number FAX Nur (508) 697-3191			lumber	Jaevaelis, Mzoller	, Kloftus,		à								
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	Sample ID									-
11	1/3/2020	2:05 p.m.	Grab	Solid	ICS-	-01-66		X					╞╴╽╺┥		╞╴╞╶╸
12	1/3/2020	2:10 p.m.	Grab	Solid	ICS-	-01-67		X							┟ │
13	1/3/2020	2:15 p.m.	Grab	Solid	ICS	-01-68		X	_	_					<u> </u>
14	1/3/2020	2:20 p.m.	Grab	Solid	ICS	-01-69		X					╎┥┤		
15	1/3/2020	2:25 p.m.	Grab	Solid	ICS		X							┨_┥──	
16	1/3/2020	2:30 p.m.	Grab	Solid	ICS		X							+ + -	
17	1/3/2020	2:35 p.m.	Grab	Solid	ICS	-01-72		X							┫
18	1/3/2020	2:40 p.m.	Grab	Solid	ICS	-01-73	· ·	X				_			<u></u>
19	1/3/2020	2:45 p.m.	Grab	Solid	DU	JP-10		X							┼╼┽─
20	1/3/2020	2:50 p.m.	Grab	Solid	DU	JP-11		X						<u> </u>	┼
Co	ontainer Type:	AC-Air Casse	tte AG-Amber GI	ass B-BOD Bottle	C-Cubitainer J-Jar O-Otl	her P-Poly S-St	erile V-Via	I AG					┼━┤─┥	<u> </u>	
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 m	L 4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 oz	2 9-4 oz 10-8 oz	11-Other	9			╎┈┥─┤				╆╾┞╺
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-	MeOH 7-Na2S2O3 8-ZnAce, NaO	of Containers ne	r Sample:				┝──┼─┼				
			- Ular Oralia		Sampled by: DID/CKi	et of containers pe		'			┶┈╵╵╺┷				
		Laborator	y Use Only 2		Sampled by . Dob/orc	Please s	necify "Oth	er" pr	eservati	ve and co	ontainers	types in this	s space	<u> </u>	
Coole	r Present:		2-		Comments:	100300							-		
Sea	Is Intact:		<u></u>	•	National Grid Project, Use Ma	anual Soxhlet Extrac	tion per EP/	A Meti	lod 3540	, кероп і	Dry weign	l, 11=ice			
Cooler T	emperature:	30	°C	Description of Des	Homogenize Sample TSCA R	Requirements, Provi	de Full Data	⊔t re Dat	e & Time)	Aece	ved By: (Sig	nature, Da	te & Tim	ie)
	elinquished by	: (Signature, Da	ate & Time)	Received By:				$\frac{1}{2}$						17	 DC
Denul Duman 1/6/2020 /mpart				~ 117 11:20	Delinent	re_//	2	/ <u>5 ~</u> C	7-		ved By: (Sid	nature Da	 te & Tim	/ ie)	
Construction Relinquished by: (Signature, Date & Time)				(Signature, Date & Time)		sy. (Signatur	e, Dai		<u>, </u>	- U					
2	32 2														



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20A0100

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:32 pm, Jan 15, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0100

SAMPLE RECEIPT

The following samples were received on January 07, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20A0100-01	ICS-03-44 0.5-1	Solid	8082A
20A0100-02	ICS-03-44 1-2	Solid	8082A
20A0100-03	ICS-03-44 2-3	Solid	8082A
20A0100-04	ICS-03-44 3-4	Solid	8082A
20A0100-05	ICS-03-45 0.5-1	Solid	8082A
20A0100-06	ICS-03-45 1-2	Solid	8082A
20A0100-07	ICS-03-45 2-3	Solid	8082A
20A0100-08	ICS-03-45 3-4	Solid	8082A
20A0100-09	ICS-03-23 0.5-1	Solid	8082A
20A0100-10	ICS-03-23 1-2	Solid	8082A
20A0100-11	ICS-03-23 2-3	Solid	8082A
20A0100-12	ICS-03-27 0.5-1	Solid	8082A
20A0100-13	ICS-03-27 1-2	Solid	8082A
20A0100-14	ICS-03-27 2-3	Solid	8082A
20A0100-15	ICS-03-33 0.5-1	Solid	8082A
20A0100-16	ICS-03-33 1-2	Solid	8082A
20A0100-17	ICS-03-33 2-3	Solid	8082A
20A0100-18	ICS-03-49	Solid	8082A
20A0100-19	ICS-03-50	Solid	8082A
20A0100-20	ICS-03-51	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0100

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

20A0100-01	<u>Surrogate recovery(ies) diluted below the MRL (SD).</u>
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
20A0100-02	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
20A0100-03	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
20A0100-04	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
20A0100-05	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
20A0100-06	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
20A0100-07	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
20A0100-08	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0100

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-44 0.5-1 Date Sampled: 01/03/20 08:30 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1010)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 10000	<u>Analyzed</u> 01/13/20 20:06	Sequence COA0195	<u>Batch</u> CA00825
Aroclor 1221	ND (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
Aroclor 1232	ND (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
Aroclor 1242	ND (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
Aroclor 1248	ND (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
Aroclor 1254	ND (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
Aroclor 1260 [2C]	3300 (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
Aroclor 1262	ND (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
Aroclor 1268	ND (1010)		8082A		10000	01/13/20 20:06	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-44 1-2 Date Sampled: 01/03/20 08:45 Percent Solids: 99 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (99.3)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1000	<u>Analyzed</u> 01/13/20 20:26	Sequence COA0195	<u>Batch</u> CA00825
Aroclor 1221	ND (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
Aroclor 1232	ND (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
Aroclor 1242	ND (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
Aroclor 1248	ND (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
Aroclor 1254	ND (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
Aroclor 1260 [2C]	1100 (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
Aroclor 1262	ND (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
Aroclor 1268	ND (99.3)		8082A		1000	01/13/20 20:26	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-44 2-3 Date Sampled: 01/03/20 09:00 Percent Solids: 99 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (2.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 20	<u>Analyzed</u> 01/13/20 20:45	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
Aroclor 1232	ND (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
Aroclor 1242	ND (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
Aroclor 1248	ND (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
Aroclor 1254	ND (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
Aroclor 1260 [2C]	69.6 (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
Aroclor 1262	ND (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
Aroclor 1268	ND (2.0)		8082A		20	01/13/20 20:45	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-44 3-4 Date Sampled: 01/03/20 09:15 Percent Solids: 99 Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (24.5)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 250	<u>Analyzed</u> 01/14/20 10:51	Sequence C0A0196	<u>Batch</u> CA00825
Aroclor 1221	ND (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
Aroclor 1232	ND (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
Aroclor 1242	ND (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
Aroclor 1248	ND (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
Aroclor 1254	ND (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
Aroclor 1260 [2C]	180 (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
Aroclor 1262	ND (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
Aroclor 1268	ND (24.5)		8082A		250	01/14/20 10:51	C0A0196	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-45 0.5-1 Date Sampled: 01/03/20 09:45 Percent Solids: 98 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1020)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 10000	Analyzed 01/13/20 21:24	Sequence COA0195	<u>Batch</u> CA00825
Aroclor 1221	ND (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
Aroclor 1232	ND (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
Aroclor 1242	ND (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
Aroclor 1248	ND (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
Aroclor 1254	ND (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
Aroclor 1260 [2C]	20900 (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
Aroclor 1262	ND (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
Aroclor 1268	ND (1020)		8082A		10000	01/13/20 21:24	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-45 1-2 Date Sampled: 01/03/20 10:00 Percent Solids: 98 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (1000)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 10000	Analyzed 01/13/20 21:43	Sequence COA0195	<u>Batch</u> CA00825
Aroclor 1221	ND (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
Aroclor 1232	ND (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
Aroclor 1242	ND (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
Aroclor 1248	ND (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
Aroclor 1254	ND (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
Aroclor 1260 [2C]	13400 (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
Aroclor 1262	ND (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
Aroclor 1268	ND (1000)		8082A		10000	01/13/20 21:43	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-45 2-3 Date Sampled: 01/03/20 10:15 Percent Solids: 99 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (1000)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 10000	<u>Analyzed</u> 01/13/20 22:02	Sequence COA0195	<u>Batch</u> CA00825
Aroclor 1221	ND (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
Aroclor 1232	ND (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
Aroclor 1242	ND (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
Aroclor 1248	ND (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
Aroclor 1254	ND (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
Aroclor 1260 [2C]	8970 (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
Aroclor 1262	ND (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
Aroclor 1268	ND (1000)		8082A		10000	01/13/20 22:02	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-45 3-4 Date Sampled: 01/03/20 10:30 Percent Solids: 99 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (993)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 10000	Analyzed 01/13/20 22:22	Sequence COA0195	<u>Batch</u> CA00825
Aroclor 1221	ND (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
Aroclor 1232	ND (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
Aroclor 1242	ND (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
Aroclor 1248	ND (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
Aroclor 1254	ND (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
Aroclor 1260 [2C]	12000 (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
Aroclor 1262	ND (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
Aroclor 1268	ND (993)		8082A		10000	01/13/20 22:22	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-23 0.5-1 Date Sampled: 01/03/20 10:45 Percent Solids: 99 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 19:47	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 19:47	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		93 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-23 1-2 Date Sampled: 01/03/20 11:00 Percent Solids: 98 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 13:40	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 13:40	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>89 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		104 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-23 2-3 Date Sampled: 01/03/20 11:15 Percent Solids: 98 Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-11 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 14:00	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
Aroclor 1260	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 14:00	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-27 0.5-1 Date Sampled: 01/03/20 11:30 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-12 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 14:19	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
Aroclor 1260	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 14:19	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>92 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-27 1-2 Date Sampled: 01/03/20 11:45 Percent Solids: 98 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-13 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 14:38	Sequence COA0195	Batch CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
Aroclor 1260	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 14:38	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-27 2-3 Date Sampled: 01/03/20 12:00 Percent Solids: 98 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-14 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 14:57	Sequence C0A0195	Batch CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
Aroclor 1260	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 14:57	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		63 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-33 0.5-1 Date Sampled: 01/03/20 12:15 Percent Solids: 99 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-15 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 15:17	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
Aroclor 1254 [2C]	1.1 (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
Aroclor 1260 [2C]	1.2 (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 15:17	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-33 1-2 Date Sampled: 01/03/20 12:30 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-16 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 15:36	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
Aroclor 1254 [2C]	0.4 (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 15:36	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-33 2-3 Date Sampled: 01/03/20 12:45 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-17 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 15:55	Sequence COA0195	Batch CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
Aroclor 1260 [2C]	0.1 (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 15:55	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-49 Date Sampled: 01/03/20 13:00 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-18 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 18:49	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 18:49	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>92 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-50 Date Sampled: 01/03/20 13:05 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-19 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 19:08	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
Aroclor 1260 [2C]	0.4 (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 19:08	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-51 Date Sampled: 01/03/20 13:10 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0100 ESS Laboratory Sample ID: 20A0100-20 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 15:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 19:28	Sequence C0A0195	<u>Batch</u> CA00825
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
Aroclor 1260 [2C]	0.7 (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 19:28	C0A0195	CA00825
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0100

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Polv	chlorinated E	Biphenvls	(PCB)					
					. /					
Batch CA00825 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0237		mg/kg wet	0.02500		95	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0260		mg/kg wet	0.02500		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.0202		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		90	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		83	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140			
	0 0248		ma/ka wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl	0.0270		mg/kg wet	0.02500		108	30-150			
Surrogate: Decachiorodiphenyi [2C]	0.0217		mg/ka wet	0.02500		87	30-150			
Surrogate. Tetrachloro.m-vylene	0.0235		mg/kg wet	0.02500		94	30-150			
			3, 3							
Aroclor 1016	0.4	0.02	ma/ka wet	0.5000		83	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	ma/ka wet	0.5000		85	40-140	- 3	30	
Aroclor 1260	0.4	0.02	mg/ka wet	0.5000		81	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140	3	30	
Surrogate: Decachlorobiphenyl	0.0239		mg/kg wet	0.02500		96	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0261		mg/kg wet	0.02500		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.0211		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0100

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CEU	Colony Forming Units
UIU	Colony Forming Onlis



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0100

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB</u>	ESS Project ID: 20A0100 Date Received: 1/7/2020	
Shipped/Delivered Via: ESS Courier	Project Due Date: 1/13/2020 Days for Project: 5 Day	
1. Air bill manifest present? No No No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	 Were samples received intact? Were labs informed about short holds & rushes? 	Yes / No/ NA
4. Is a Cooler Present? Yes Temp: 3.5 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No /NA
13. Are the samples properly preserved? Yes No a. if metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	_
Sample Receiving Notes:	oz ar of paint chips.	
"PS-125" is inked over in my	aptur on cap.	
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? Mark Zoller Date: 1/8/20	Хинги Бу:	
Add sample to WO 20A0097 for PCB		

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	796	Yes	N/A	Yes	8 oz jar	NP	
2	797	Yes	N/A	Yes	8 oz jar	NP	
3	798	Yes	N/A	Yes	8 oz jar	NP	
4	799	Yes	N/A	Yes	8 oz jar	NP	
5	800	Yes	N/A	Yes	8 oz jar	NP	
6	801	Yes	N/A	Yes	8 oz jar	NP	
7	802	Yes	N/A	Yes	8 oz jar	NP	
8	803	Yes	N/A	Yes	8 oz jar	NP	
9	804	Yes	N/A	Yes	8 oz jar	NP	
10	805	Yes	N/A	Yes	8 oz jar	NP	
11	806	Yes	N/A	Yes	8 oz jar	NP	
12	807	Yes	N/A	Yes	8 oz jar	NP	
13	808	Yes	N/A	Yes	8 oz jar	NP	
14	809	Yes	N/A	Yes	8 oz jar	NP	
15	810	Yes	N/A	Yes	8 oz jar	NP	
16	811	Yes	N/A	Yes	8 oz jar	NP	
17	812	Yes	N/A	Yes	8 oz jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist



ESS L	aboratorv	,		с		γ	ESS La	b#	X)AC	5100)			
Division of	Thielsch Enai	neerina. Inc.		Turn Time 5-Day Rush					Reporting <0.5 mg/kg						
185 France	es Avenue, Cra	anston RI 0291	0	Regulatory State Rhode Island				5	<u> </u>						
Tel. (401) 4	461-7181 Fax	((40 1) 461-448	36	ls thi	s project for any of the follow	ving?:	Elector	nic	Limit Che	cker		∐ Stand	ard Excel	:	
www.essla	boratory.com			O CT RCP	<u>O MA MCP</u> O	RGP	Deliverat	bles	Other (Pl	ease Specif	y →) 				
	Con	npany Name		Project # Project Name											
	Coneco En	gineers & Scie	ntists	Address											1
ļ		lark Zoller			4 First Street		lys							1	
	City		S	tate	Zip Code	PO #	Ana	22							
	Bridgewate	r	Massa	chusetts	02324 Email Addr	5675.F		808							
T	elephone Nur	nber of	FAXI	number	Jaevaelis, Mzoller, Kloftus, Ddifra	ancesco@coneco.com		þ							
ESS Lab	Collection	Collection	Sample Type	Sample Matrix	San	nple ID		PCBs		_ _				\downarrow \downarrow \downarrow $-$	<u>_ </u>
01	1/3/2020	8:30 a.m.	Grab	Solid	ICS-03-	-44 (0.5-1)		X		_				↓	
02	1/3/2020	8:45 a.m.	Grab	Solid	ICS-03	3-44 (1-2)		X			_				
03	1/3/2020	9:00 a.m.	Grab	Solid	ICS-03	3-44 (2-3)		X					_	╞╌┥	<u> </u>
04	1/3/2020	9:15 a.m.	Grab	Solid	ICS-00	3-44 (3 -4)		X							┼──┼─-
05	1/3/2020	9:45 a.m.	Grab	Solid	ICS-03	-45 (0.5-1)		X						┟┈┥──	<u> </u>
06	1/3/2020	10:00 a.m.	Grab	Solid	ICS-03		X								
07	1/3/2020	10:15 a.m.	Grab	Solid	ICS-03	3-45 (2-3)		X						┥┼┝	╀╋╸
08	1/3/2020	10:30 a.m.	Grab	Solid	ICS-03	3-45 (3-4)		×						+ $+$	+ +
09	1/3/2020	10:45 a.m.	Grab	Solid	ICS-03	-23 (0.5-1)		X						┼━┼─	╄╌┼╺
10	1/3/2020	11:00 a.m.	Grab	Soliđ	ICS-0	3-23 (1-2)		X				_		+	+
Co	ontainer Type:	AC-Air Casse	tte AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer G - Glass O-C	Other P-Poly S-St	erile V-Via		-			┝╴┦╼╉		┼╾┼╼	+ +
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 m	L 4-300 mL 5-50	0 mL 6-1L 7-VOA 8-2 o:	z 9-4 oz 10-8 oz	11-Other					┝╺┿╴┼╸		+-+-	┼━╃─
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	fethanol 7-Na2S2O3 8-ZnAce Nat	OH 9-NH4C1 10-DI H2	0 11-Other					┟┈┥╶┠╸		+-+	╁╼┽─
				<u> </u>	Numb	er of Containers per	Sample:	1							
		Laborator	y Use Only		Sampled by : DJD/CK										
Coole	r Present:				Comments: Please specify "Other" preservative and containers types in this space										
Sea	Is Intact:				National Grid Project, Use M	anual Soxhlet Extrac	tion per EP.	A Mel	hod 3540,	Report I	Dry Weigł	nt, 11=ice			
Cooler T	emperature:	-275	°C .		Homogenize Sample TSCA	Requirements, Provid	le Full Data	Pack	age	<u> </u>				;	
- R	elinguished by	: (Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished B	y: (Signatu	re, Da	te & Time	<u> </u>		ined By: (S	ignature, D	ate & Tim	ie)
Draw	II Shann	in 1161	2020	Ma	2/ 1/211-20 John 1/2 1508 UN 1/2					$ \mathbf{h} _{\mathbf{z}}$	2/5	08			
	elinguished by	: (Signature, D	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished B	ý (Signatu	re, Da	te & Time	<u>) </u>	Rece	eived By: (S	ignature, L	ate & Ilm	
												2			

ESSIA	aboratory	,		C	HAIN OF CUSTOD	Υ	ESS Lat) #	A	DAD	100							
E00 La	aboratory	anning las		Turn Time	Turn Time 5-Day Rush R					Reporting <0.5 mg/kg								
Division of	Thielson Engli	neering, iric. aaston RI 0291	n	Regulatory State	Rhode Island													
185 France	25 Avenue, Cia 161-7181 Fax	(401) 461-448	6	ls thi	s project for any of the follow	ving?:	Elector	ic 🗌] Limit Che	cker		🗆 Exc	el					
www.essla	boratory.com	((())))	-	O CT RCP	O MA MCP O 1	RGP	Deliverat	Dies 🛛	Other (Ple	ase Specify	>) ──1 ──		- <u>-</u>					
	Con	npany Name		Project #	Project Nai	ne 6 Thorton Ave												
	Coneco En	gineers & Scie	ntists	<u>5675.F</u>	<u>.s</u>													
	Lor N	lark Zoller			4 First Street		- Ale											
	City		S	tate	Zip Code	PO # 5675 F	Υ ^μ	8		1								
	Bridgewate	r	Massa	chusetts	Email Addr	ess	1	8										
	(508) 697-31	91			Jaevaelis, Mzoller	, Kloftus, DDiFranc	1510	ŝ										
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	D.()	E B C B C B C B	_ _					++					
	1/3/2020	11:15 a.m.	Grab	Solid	ICS-03	3-23 (2-3)		X			_	┧━┼╺┽		_				
12	1/3/2020	11:30 a.m.	Grab	Solid	ICS-03	27 (0.5-1)		X	_ _			┼╸╎╺┼		+				
13	1/3/2020	11:45 a.m.	Grab	Solid	ICS-03		X				┥┝╽	┥┢		_+_				
14	1/3/2020	12:00 p.m.	Grab	Solid	ICS-03	3-27 (2-3)		×		_		┥┝┤	_	 _				
15	1/3/2020	12:15 p.m.	Grab	Solid	ICS-03	-33 (0.5-1)		X		_								
16	1/3/2020	12:30 p.m.	Grab	Solid	ICS-03		X	_			┼╾┼╺┽							
17	1/3/2020	12:45 p.m.	Grab	Solid	ICS-03	3-33 (2-3)		X			_ -			_}_				
18	1/3/2020	1:00 p.m.	Grab	Solid		-03-49		X	_ _									
19	1/3/2020	1:05 p.m.	Grab	Solid		5-03-50		X				┼┽┼		┝				
20	1/3/2020	1:10 p.m.	Grab	Solid		S-03-51		X				+ + +						
Co	ntainer Type:	AC-Air Casse	tte AG-Amber G	ass B-BOD Bottle	C-Cubitainer J-Jar O-O	her P-Poly S-St	erile V-Via	AG				╶╀┈╼╀╶╺╇		-+-+	-+-			
Cont	ainer Volume:	1-100 mL 2	2-2.5 gal 3-250 m	L 4-300 mL 5-50	0 mL 6-1L 7-VOA 8-2 0	z 9-4 oz 10-8 oz		9/10				┼━┼╶┿		-+-+	-+-			
Prese	rvation Code:	1-Non Preserve	ed 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-	MeOH 7-Na2S2O3 8-ZnAce, NaC	0H 9-NH4CI 10-DI HZ	Comple:	- 1				╶╀╴┠╾┤			-+			
					Numb	er of Containers per	sample.						1		L .			
		Laborator	γ Use Only		Sampled by : DJD/CKL	Diagon o	nacify "Oth				ntainers tv	pes in this	space					
Coole	r Present:		_		Comments: Please specify Other preservative and containers (poor in this option)													
Sea	Is Intact:				National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight, 11=ice													
Cooler T	emperature:	35	°C		Homogenize Sample TSCA Requirements, Provide Full Data F													
R	elinquished by	r: (Signature, D	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished		e, Dai		/	$\overline{\Lambda}$			100	<u>a</u>			
Drmi	1 Dunn	m 1/6/2	2020	Wach	-1/2 11:20	Min		<u>_/5</u>	pS 8 Time	. .		d By: (Sign	ature. Date	. <u>/</u> / & Time	D			
<u>਼</u> ੁ R	elinquished by	r: (Signature, D	ate & Time)	Received By	: (Signáture, Date & Time)	Relinquished E	by: (Signatu	e, Dai		<u>'</u>	100010	<u>, , , , , , , , , , , , , , , , , , , </u>		÷	<u>*_ ·</u>			
31											<u> </u>							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20F0218

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan.

By ESS Laboratory at 12:52 pm, Jun 11, 2020

REVIEWED

This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0218

SAMPLE RECEIPT

The following samples were received on June 04, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20F0218-01	ICS-01-74	Solid	8082A
20F0218-02	ICS-01-75	Solid	8082A
20F0218-03	ICS-01-76	Solid	8082A
20F0218-04	ICS-01-77	Solid	8082A
20F0218-05	ICS-01-78	Solid	8082A
20F0218-06	ICS-01-79	Solid	8082A
20F0218-07	ICS-01-80	Solid	8082A
20F0218-08	ICS-01-81	Solid	8082A
20F0218-09	ICS-03-57	Solid	8082A
20F0218-10	ICS-03-58	Solid	8082A
20F0218-11	ICS-03-59	Solid	8082A
20F0218-12	ICS-03-60	Solid	8082A
20F0218-13	ICS-04-25	Solid	8082A
20F0218-14	ICS-04-26	Solid	8082A
20F0218-15	ICS-04-27	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0218

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0218

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-74 Date Sampled: 05/28/20 09:05 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-01 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 17:48	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
Aroclor 1260	0.2 (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 17:48	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-75 Date Sampled: 05/28/20 09:10 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-02 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 18:07	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
Aroclor 1260	0.2 (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 18:07	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-76 Date Sampled: 05/28/20 09:15 Percent Solids: 98 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-03 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 18:27	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
Aroclor 1260	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 18:27	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>89 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		97 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>99 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-77 Date Sampled: 05/28/20 09:20 Percent Solids: 95 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-04 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 18:47	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 18:47	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>94 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		100 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>85 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		105 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-78 Date Sampled: 05/28/20 09:25 Percent Solids: 95 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-05 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 19:07	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
Aroclor 1260	0.5 (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 19:07	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		48 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		48 %		30-150				
Surrogate: Tetrachloro-m-xylene		42 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		45 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-79 Date Sampled: 05/28/20 09:30 Percent Solids: 98 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-06 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 19:27	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 19:27	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>85 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		100 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-80 Date Sampled: 05/28/20 09:35 Percent Solids: 98 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-07 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 19:46	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
Aroclor 1260	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 19:46	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>98 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>96 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-81 Date Sampled: 05/28/20 09:40 Percent Solids: 95 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-08 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:06	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
Aroclor 1260	0.6 (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 20:06	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		45 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-57 Date Sampled: 05/28/20 09:45 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-09 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:26	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
Aroclor 1260	0.3 (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 20:26	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		113 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		89 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-58 Date Sampled: 05/28/20 09:50 Percent Solids: 99 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-10 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:46	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
Aroclor 1260	0.5 (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 20:46	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-59 Date Sampled: 05/28/20 09:55 Percent Solids: 98 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-11 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 21:05	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
Aroclor 1260	0.9 (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 21:05	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-60 Date Sampled: 05/28/20 10:00 Percent Solids: 99 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-12 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 21:25	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
Aroclor 1260	0.9 (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 21:25	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>94 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-25 Date Sampled: 05/29/20 13:00 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-13 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 21:45	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
Aroclor 1260	0.7 (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 21:45	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-26 Date Sampled: 05/29/20 13:05 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-14 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 22:05	Sequence D0F0137	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
Aroclor 1260	3.0 (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 22:05	D0F0137	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-27 Date Sampled: 05/29/20 13:10 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0218 ESS Laboratory Sample ID: 20F0218-15 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/8/20 12:49

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 12:35	Sequence D0F0185	<u>Batch</u> DF00810
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
Aroclor 1260	2.1 (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 12:35	D0F0185	DF00810
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0218

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DF00810 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0230		mg/kg wet	0.02500		<i>92</i>	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0233		mg/kg wet	0.02500		<i>93</i>	30-150			
Surrogate: Tetrachloro-m-xylene	0.0178		mg/kg wet	0.02500		71	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0204		mg/kg wet	0.02500		82	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobinhenvl	0.0231		mg/kg wet	0.02500		<i>93</i>	30-150			
Surrogate: Decachlorobinhenvl [2C]	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0194		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0212		mg/kg wet	0.02500		85	30-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		85	40-140	0.3	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140	3	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		98	40-140	0.4	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140	0.2	30	
Surragete: Decechlarabinhenvl	0.0231		mg/ka wet	0.02500		93	30-150			
Surrogate: Decachlorobishonul [20]	0.0231		mg/ka wet	0.02500		92	30-150			
Surrogate: Decachiorophilenyi [2C]	0.0194		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-vulene [20]	0.0213		mg/kg wet	0.02500		85	30-150			
συπογαίε. Τειταιποτο-Π-ΧγΙΕΠΕ [20]	0.0210						100			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0218

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Letection Limit
I/ V E/X/	Final Volume
Γ/ V	
8 1	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogales and/or internal standards eluting in that range.
2	Range result excludes the concentration of the C0 C10 aromatic range.
3 Ανσ	Range result excludes the concentration of the C9-C10 aromatic range.
NR	Results reported as a mathematical average.
	Colculated Analyte
	Calculated Analysic: see attached report
BI	Reporting Limit
	Estimated Detection Limit
EDL	Estimated Detection Limit
	Memorane Filiration
MPN	Most Probably Number
TNIC	Ioo numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0218

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 20F0218	
Shipped/Delivered Via: ESS Courier	Date Received: 6/4/2020 Project Due Date: 6/11/2020 Days for Project: 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3 is radiation count <100 CPM2 Yes	8. Were samples received intact?	Yes
A is a Cooler Present?	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No (NA)
Temp: <u>1.2</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No (NA)
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes / a. Was there a need to contact the client? Yes / Who was contacted? Date:	No No Time: By:	
· · · · · · · · · · · · · · · · · · ·		

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	49826	Yes	N/A	Yes	4 oz. Jar	NP	
2	49827	Yes	N/A	Yes	4 oz. Jar	NP	
3	49828	Yes	N/A	Yes	4 oz. Jar	NP	
4	49829	Yes	N/A	Yes	4 oz. Jar	NP	
5	49830	Yes	N/A	Yes	4 oz. Jar	NP	
6	49831	Yes	N/A	Yes	4 oz. Jar	NP	
7	49832	Yes	N/A	Yes	4 oz. Jar	NP	
8	49833	Yes	N/A	Yes	4 oz. Jar	NP	
9	49834	Yes	N/A	Yes	4 oz. Jar	NP	
10	49835	Yes	N/A	Yes	4 oz. Jar	NP	
11	49836	Yes	N/A	Yes	4 oz. Jar	NP	
12	49837	Yes	N/A	Yes	4 oz. Jar	NP	
13	49838	Yes	N/A	Yes	4 oz. Jar	NP	
14	49839	Yes	N/A	Yes	4 oz. Jar	NP	
15	49840	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB</u>		ESS Project ID: Date Received:	20F0218 6/4/2020
Were all containers scanned into storage/lab?	Initials		
Are barcode labels on correct containers?	(es/	Ng	
Are all Flashpoint stickers attached/container ID # circled?	Yest No	D/ NA	
Are all Hex Chrome stickers attached?	Yes / No	NA	
Are all QC stickers attached?	Yes / No	/ NA')	
Are VOA stickers attached if bubbles noted?	Yes / No	VNA/	
Completed By: Reviewed By: Delivered By:	Date & Time:	4/20/95 6/4/20 6/4/20	J

ESS La	aboratory	/		C	HAIN OF CUSTOR	Y +	ESS Lab	* 20	FOZI	8				
Division of	Thielsch Engi	neering, Inc.		Turn Time	(5-Day) Rush	i	Reporting		<u> </u>	<u> </u>				
185 France	es Avenue, Cra	anston RI 0291	0	Regulatory State	Rhode Island		Limits	205	Marci	1		<u> </u>		
Tel. (401) 4	461-7181 Fax	x (401) 461-448	36	ls th	is project for any of the follow	ving?:	Electonic	; 🗆 Limit Ch	ecker VIC		C) Standard Ex	cel		
www.essia	boratory.com	non Nama				IGP D	Peliverable	95 D/Other (f	Please Specify -	<u>•) </u>				
Coney	o Engine	ers and	siventists	5675. F	autocket Control huse	6 thornton Ave		2						
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Red	City	,	Mussach	tate	Zip Code		Anal							
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508	<u>- 697-31°</u>				M2011er Pl	don Kloths		<u>2</u>						
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID DDiffen(c) co @Conelo	con !	22						
	5/28/20	9:05 am	Gras	Concrete	1(5 - 0) - 74			X						
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3		9:15 cm			ics-01-7	6	;	$\langle $						
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6		9:30 am			ics - 01 -	79		X						
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8		9:40 gm			105-01	- 81		χ						
9		9: 945 ar	h		105-03	- 57		X						
10	\checkmark	9:50 gr	1 V	V	ics - 03	- 58		χ						
Col	ntainer Type:	AC-Air Cassel	te AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Sterile	V-Vial	ł6 📃 🗕				\perp	┶┷┶	\square
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 m	L 4-300 mL 5-50	0 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz 11	1-Other*	1					++	
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	lethanol 7-Na2S2O3 8-ZnAce, NaC	0H 9-NH4CI 10-DI H2O	11-Other*	<u>n </u>	+ + +	_ _	┞┤┤		╉┯╌╂╴	
	·				Numbe	r of Containers per Sa	mple:							
		Laboratory	y Use Only		Sampled by: DJD/	166								
Cooler	Present:				Comments:	Please specif	fy "Other"	preservati	ve and con	ainers typ	es in this s	pace ∬.	1 70	-un
Seals	s Intact:				National and roo	lect, Use Mun	UG1 5	oxhiet	ermol	th nor		litho	ル >> 1.	, i ⁰ , .
Cooler Te	emperature:	-0.1/1.2	°C		Report dry weigh	ht humogenize	sampl	e,TSCA	Kequi	Ment.	, full pe	uta 160	: Verg-	
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Page 2/2

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1 el. (401)	461-7181 Fai	x (401) 461-44	86	Is this project for any of the following?:													
<u>www.cssic</u>	Cor	nnany Name		Broject #		KGP	Deliverat	Dies (i	2/Other (Please Sj	xecify →)	<u>- FRF</u>				T	
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ESS Lab	Collection	Collection	Sample Type	Sample Matrix	Sarr	ple ID DDiFrances	10										
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Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	L	I C-Cubitainer G - Glass O-Of	ther P-Poly S-Steri	le V-Vial	AZ+		┼╴╂╴			╈╌╋			┼╌┼╌	+-+
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 mL	4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9		<u> </u> -							
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4 4	HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaC	H 9-NH4CI 10-DI H2O	11-Other*	N									
					Numbe	r of Containers per S	Sample:	1									
		Laboratory	y Use Only		Sampled by: DJD/	166										<u> </u>	
Cooler	Present:				Comments:	Please spe	cify "Other	r" pre	servati	ve and	conțai	ners ty	pes in t	this spa	ісе М.Ш.	170	40 l.
Seals	s intact:				Naponal ona 100	ect, use Ma	Λυα[]	JOXI	ler	ern D	uone		Pr-i	<i>ברו</i> ן הה	110100		
Cooler Te	emperature:	-0.1/1.7	°C		Keport dry wag	ht. humogenize	: samp	le,	TSCH	Ke	qui M	M-ONI	5,501	(yał	ti [ac	Worg-l	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2010163

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:56 pm, Sep 18, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0163

SAMPLE RECEIPT

The following samples were received on September 03, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20I0163-01	ICS-01-82	Solid	8082A
20I0163-02	ICS-01-83	Solid	8082A
20I0163-03	ICS-01-84	Solid	8082A
20I0163-04	ICS-01-85	Solid	8082A
20I0163-05	ICS-01-86	Solid	8082A
20I0163-06	DUP-12	Solid	8082A
20I0163-07	DUP-13	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0163

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0163

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-82 Date Sampled: 09/02/20 09:05 Percent Solids: 99 Initial Volume: 5.54 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010163 ESS Laboratory Sample ID: 2010163-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 5:35	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
Aroclor 1232	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
Aroclor 1242	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
Aroclor 1248	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
Aroclor 1254	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
Aroclor 1260	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
Aroclor 1262	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
Aroclor 1268	ND (0.09)		8082A		1	09/09/20 5:35	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>68 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		59 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-83 Date Sampled: 09/02/20 09:10 Percent Solids: 96 Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010163 ESS Laboratory Sample ID: 2010163-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 5:54	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
Aroclor 1260	4.0 (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 5:54	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-84 Date Sampled: 09/02/20 09:15 Percent Solids: 99 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010163 ESS Laboratory Sample ID: 2010163-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 6:13	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
Aroclor 1260	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 6:13	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-85 Date Sampled: 09/02/20 09:20 Percent Solids: 98 Initial Volume: 5.34 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010163 ESS Laboratory Sample ID: 2010163-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 6:33	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
Aroclor 1260	0.5 (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 6:33	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>59 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		54 %		30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		60 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-86 Date Sampled: 09/02/20 09:25 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010163 ESS Laboratory Sample ID: 2010163-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 6:52	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
Aroclor 1260	0.9 (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 6:52	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-12 Date Sampled: 09/02/20 11:15 Percent Solids: 100 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010163 ESS Laboratory Sample ID: 2010163-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 7:11	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
Aroclor 1260	1.0 (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 7:11	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>79 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-13 Date Sampled: 09/02/20 11:30 Percent Solids: 99 Initial Volume: 5.46 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010163 ESS Laboratory Sample ID: 2010163-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 7:30	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
Aroclor 1232	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
Aroclor 1242	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
Aroclor 1248	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
Aroclor 1254	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
Aroclor 1260 [2C]	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
Aroclor 1262	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
Aroclor 1268	ND (0.09)		8082A		1	09/09/20 7:30	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		79 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>79 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0163

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		, 		· ·						
Batch DI01019 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Arocior 1262 [2C]	ND	0.02	mg/kg wet							
Arocior 1268	ND	0.02	mg/kg wet							
Arocior 1268 [2C]	ND	0.02	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.0202		mg/kg wet	0.02500		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene	0.0131		mg/kg wet	0.02500		52	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0142		mg/kg wet	0.02500		57	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		83	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			
	0 0208		ma/ka wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl	0.0200		mg/kg wet	0.02500		76	30-150			
Surrogate: Decachiorodiphenyi [2C]	0.0176		mg/kg wet	0.02500		70	30-150			
Surrogate. Tetrachlorosm-vulene [20]	0.0174		mg/kg wet	0.02500		- 70	30-150			
			3. 3 - 9			*				
Aroclor 1016	0.4	0.02	ma/ka wet	0.5000		84	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	ma/ka wet	0.5000		80	40-140	2	30	
Aroclor 1260	0.5	0.02	mg/ka wet	0.5000		100	40-140	6	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140	6	30	
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0168		mg/kg wet	0.02500		67	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0163

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NR	Results reported as a mathematical average. No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0163

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

	Date Received: 9/3/26
Shipped/Delivered Via: <u>ESS Course</u>	Project Due Date:9/ul 2
1. Air bill manifest present?	6. Does COC match bottles?
2 Were custody seals present?	7. Is COC complete and correct?
3 ls radiation count <100 CPM2	8. Were samples received intact?
	9. Were labs informed about <u>short holds & rushes</u> ? Yes / No / NA
4. Is a Cooler Present? Temp: <	10. Were any analyses received outside of hold time? Yes/No
5. Was COC signed and dated by client?	
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? Image: Comparison of the samples properly preserved? a. If metals preserved upon receipt: Date:	Time: By: Time: By:
Sample Receiving Notes:	
14. Was there a need to contact Project Manager?	Yes No
Who was contacted? Date: _	Time: By:
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cyanide and 608 Pesticides)
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Initials Yes / No Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA
Completed By: Reviewed By: Delivered By:	Date & Time: 9/4/2 1/-39 Date & Time: 9/4/2 1217

ESS Laboratory Sample and Cooler Receipt Checklist

ESS L	aboratory	,		С	HAIN OF CUSTOD	Y	ESS Lat)#		201	016	3			
Division of	f Thielsch Engi	neering, Inc.	ļ	Turn Time	5-Day Rush		Reporting			<0.5 mg/kg PCBs					
185 Frances Avenue, Cranston RI 02910 Regulatory State					Rhode Island	Limits									
Tel. (401)	461-7181 Fax	(401) 461-448	36	ls thi	s project for any of the follow	project for any of the following?:			Electonic Limit Checke			er L Standard Excel			
www.essla	aboratory.com				MA MCP U	RGP	Deliverat			ase speciry		-1-1			
	Coneco Engli	npany Name	sts. Inc.	Project # 5675.F	Project Nat Pawtucket 1 Control House, 6 The	orton St, Pawtucket RI						11			
	Cor	itact Person			Address		sis.								
	City	iark Zoller	St	ate	Zip Code	PO#	- Ial								
	Bridgewate	r	Massa	chusetts	02324	5675.F	Ī₹	~							
	Felephone Nur	nber	FAX N	lumber	Email Addre Mzoller, Kloftus, Ddifrancesco,	ess Lauiry@coneco.com		808							
ESS Lab	Collection	Collection	Sample Type	Sample Matrix	Sam	aple ID		CBS							
ID	Date	Time											1		
01	9/2/20	9:05 a.m.	Grab	Solid		-01-82						_	+		
02	9/2/20	9:10 a.m.	Grab	Solid		-01-83		X	_		_				
03	9/2/20	9:15 a.m.	Grab	Solid	ICS	-01-84		X					<u> </u>		
04	9/2/20	9:20 a.m.	Grab	Solid	Solid ICS-01-85									┨┈┥┥	
05	9/2/20	9:25 a.m.	Grab	Solid	Solid ICS-01-86			X	+						
06	9/2/20	11:15 a.m.	Grab	Solid	DU		X								
07	9/2/20	11:30 a.m.	Grab	Solid	DU		X			╧				<u></u>	
														<u> </u>	
										_		_			
Co	ntainer Type:	AC-Air Cassel	te AG-Amber Glas	ss B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	erile V-Vial	AG						┨	
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 ml	4-300 mL 5-500)mL 6-1L 7-VOA 8-2 oz	2 9-4 oz 10-8 oz	11-Other	9	<u> </u>				┼╌┾╾	+ $+$	
Prese	rvation Code:	1-Non Preserved	1 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	lethanol 7-Na2S2O3 8-ZnAce, NaC	DH 9-NH4CI 10-DI H20	0 11-Other*	11					┼╾┼╴	++	
					Numbe	er of Containers per	Sample:	1					1 1		<u> </u>
		Laborator	y Use Only		Sampled by: DJD/LGC	3									
Coole	r Present:		_		Comments:	Please sp	ecify "Oth	er" pre	servative	and con	tainers	types in th	is space		
Seal	is Intact:		_		National Grid Project, Use Ma	anual Soxhlet Extract	ion per EPA	Metho	od 3540, l	Report Dr	y Weight	, 11=ice			
Cooler T	emperature:	-0.8	°C		Homogenize Sample TSCA R	Requirements, Provid	e Full Data	Packag	je		Add	email: Jaev	azelis@co	neco.co	2m
R	elinquished by	(Signature, Da	ate & Time)	Received By:	Relinquished By	y: (Signature	e, Date	& Lime)			iea By: (Sig	jinature, D		//////////////////////////////////////	
12	NJS	913120	5 2:30 pM	shahad	913120 1440	LAR	913/2	0	755		10		<u> []3/2.</u>	17:	55
R	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	y: (Signatur	e, Date	& Time)	//-	Receiv	/ed By: (Sig	gnature, D	ate & Ti	me)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2010165

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 2:04 pm, Sep 18, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0165

SAMPLE RECEIPT

The following samples were received on September 03, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20I0165-01	ICS-03-61	Solid	8082A
20I0165-02	ICS-03-62	Solid	8082A
20I0165-03	ICS-03-63	Solid	8082A
20I0165-04	ICS-03-64	Solid	8082A
20I0165-05	ICS-03-65	Solid	8082A
20I0165-06	ICS-03-66	Solid	8082A
20I0165-07	ICS-03-67	Solid	8082A
20I0165-08	ICS-03-68	Solid	8082A
20I0165-09	ICS-03-69	Solid	8082A
20I0165-10	ICS-03-70	Solid	8082A
20I0165-11	ICS-04-28	Solid	8082A
20I0165-12	ICS-04-29	Solid	8082A
20I0165-13	ICS-04-30	Solid	8082A
20I0165-14	ICS-04-31	Solid	8082A
20I0165-15	ICS-04-32	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0165

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0165

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-61 Date Sampled: 09/02/20 09:40 Percent Solids: 100 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 3:02	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
Aroclor 1232	ND (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
Aroclor 1242	ND (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
Aroclor 1248	ND (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
Aroclor 1254	ND (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
Aroclor 1260	0.6 (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
Aroclor 1262	ND (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
Aroclor 1268	ND (0.1)		8082A		1	09/10/20 3:02	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-62 Date Sampled: 09/02/20 09:45 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 3:21	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
Aroclor 1232	ND (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
Aroclor 1242	ND (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
Aroclor 1248	ND (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
Aroclor 1254	ND (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
Aroclor 1260	0.6 (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
Aroclor 1262	ND (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
Aroclor 1268	ND (0.1)		8082A		1	09/10/20 3:21	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		58 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		55 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		56 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-63 Date Sampled: 09/02/20 09:50 Percent Solids: 100 Initial Volume: 5.44 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 3:41	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
Aroclor 1260	0.4 (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 3:41	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-64 Date Sampled: 09/02/20 09:55 Percent Solids: 100 Initial Volume: 5.63 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 4:01	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
Aroclor 1260	0.3 (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 4:01	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-65 Date Sampled: 09/02/20 10:00 Percent Solids: 100 Initial Volume: 5.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 4:20	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
Aroclor 1232	ND (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
Aroclor 1242	ND (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
Aroclor 1248	ND (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
Aroclor 1254	ND (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
Aroclor 1260	0.5 (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
Aroclor 1262	ND (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
Aroclor 1268	ND (0.1)		8082A		1	09/10/20 4:20	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-66 Date Sampled: 09/02/20 10:05 Percent Solids: 99 Initial Volume: 5.18 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 4:40	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
Aroclor 1232	ND (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
Aroclor 1242	ND (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
Aroclor 1248	ND (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
Aroclor 1254	ND (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
Aroclor 1260	0.4 (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
Aroclor 1262	ND (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
Aroclor 1268	ND (0.1)		8082A		1	09/10/20 4:40	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		54 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-67 Date Sampled: 09/02/20 10:10 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 5:00	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
Aroclor 1232	ND (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
Aroclor 1242	ND (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
Aroclor 1248	ND (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
Aroclor 1254	ND (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
Aroclor 1260	0.5 (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
Aroclor 1262	ND (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
Aroclor 1268	ND (0.1)		8082A		1	09/10/20 5:00	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		57 %		30-150				
Surrogate: Tetrachloro-m-xylene		51 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		46 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-68 Date Sampled: 09/02/20 10:15 Percent Solids: 100 Initial Volume: 5.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	Results (MRL) ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 5:20	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
Aroclor 1260	0.7 (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 5:20	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		64 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-69 Date Sampled: 09/02/20 10:20 Percent Solids: 100 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 5:39	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
Aroclor 1232	ND (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
Aroclor 1242	ND (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
Aroclor 1248	ND (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
Aroclor 1254	ND (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
Aroclor 1260	0.5 (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
Aroclor 1262	ND (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
Aroclor 1268	ND (0.1)		8082A		1	09/10/20 5:39	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-70 Date Sampled: 09/02/20 10:25 Percent Solids: 100 Initial Volume: 5.42 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 5:59	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
Aroclor 1260	0.3 (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 5:59	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		52 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-28 Date Sampled: 09/02/20 10:30 Percent Solids: 99 Initial Volume: 5.42 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-11 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 6:19	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
Aroclor 1260	0.9 (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 6:19	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		47 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		49 %		30-150				
Surrogate: Tetrachloro-m-xylene		63 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		59 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-29 Date Sampled: 09/02/20 10:35 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-12 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 6:39	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
Aroclor 1232	ND (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
Aroclor 1242	ND (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
Aroclor 1248	ND (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
Aroclor 1254	ND (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
Aroclor 1260	0.5 (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
Aroclor 1262	ND (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
Aroclor 1268	ND (0.1)		8082A		1	09/10/20 6:39	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		56 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		57 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-30 Date Sampled: 09/02/20 10:40 Percent Solids: 100 Initial Volume: 5.5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-13 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 6:58	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
Aroclor 1260	0.3 (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 6:58	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		47 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		48 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-31 Date Sampled: 09/02/20 10:45 Percent Solids: 99 Initial Volume: 5.5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-14 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	Results (MRL) ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 7:18	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
Aroclor 1260	0.5 (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 7:18	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-32 Date Sampled: 09/02/20 10:50 Percent Solids: 99 Initial Volume: 5.37 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010165 ESS Laboratory Sample ID: 2010165-15 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 13:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/20 7:38	Sequence D0I0145	<u>Batch</u> DI01018
Aroclor 1221	ND (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
Aroclor 1232	ND (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
Aroclor 1242	ND (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
Aroclor 1248	ND (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
Aroclor 1254	ND (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
Aroclor 1260	0.5 (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
Aroclor 1262	ND (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
Aroclor 1268	ND (0.09)		8082A		1	09/10/20 7:38	D0I0145	DI01018
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>59 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		61 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0165

Quality Control Data

Analita	Dlt	MDI	11-2-	Spike	Source	0/ 050	%REC		RPD	Qualifier
Andiyte	Kesuit	MKL	Units	Levei	Result	%REC	LIMITS	KPD	LIMIT	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DI01018 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0193		mg/kg wet	0.02500		77	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0159		mg/kg wet	0.02500		64	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0159		mg/kg wet	0.02500		64	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		81	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Surrogate: Decachlorobiphenyl	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0153		mg/kg wet	0.02500		61	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0150		mg/kg wet	0.02500		60	30-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		82	40-140	1	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140	1	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		93	40-140	4	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0158		mg/kg wet	0.02500		63	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0155		mg/kg wet	0.02500		62	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0165

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0165

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Concco</u> Shipped/Delivered Via: <u>ESS Court</u> ed	ESS Project ID: <u>2010(65</u> Date Received: <u>9/3/26</u> Project Due Date: <u>9/11/20</u> Days for Project: <u>5</u>	
 Air bill manifest present? Air No.: NA Were custody seals present? Is radiation count <100 CPM? Yes Is a Cooler Present? Temp: -/ S Iced with: Icc Was COC signed and dated by client? 	 6. Does COC match bottles? 7. Is COC complete and correct? 8. Were samples received intact? 9. Were labs informed about <u>short holds & rushes</u>? 10. Were any analyses received outside of hold time? 	Yes / Nor NA Yes / Nor NA
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Image: Constraint of the sample preserved upon receipt: Image: Constraint of the sample preserved upon receipt: b. Low Level VOA vials frozen: Image: Constraint of the sample preserved upon receipt: Image: Constraint of the sample preserved upon receipt: Sample Receiving Notes: Image: Constraint of the sample preserved upon receipt: Image: Constraint of the sample preserved upon receipt:	Time: By: Time: By:	
14. Was there a need to contact Project Manager? Yes / a. Was there a need to contact the client? Yes / Who was contacted? Date:	No No Time: By:	
Sample Container Proper Air Bubbles Sufficient Co Number ID Container Present Volume	ontainer Type Preservative Record pH (C Pesti	yanide and 608 cides)
2nd Review Were all containers scanned into storage/lab? Initials_ Are barcode labels on correct containers? Initials_ Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted? Are All All All All All All All All All Al	Yes / No Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA	
Completed By: Reviewed By: Delivered By:	Time: $9/4/20 11:26$ Time: $9/4/20 1237$ 9/4/20 237	

ESS Laboratory				CHAIN OF CUSTODY			ESS Lab# 20I0165										
Division of Thielsch Engineering, Inc.				Turn Time 5-Day Rush			Reporting <0.5 mg/kg PCPs										
185 Frances Avenue, Cranston RI 02910			Regulatory State Rhode Island			Limits											
Tel. (401) 461-7181 Fax (401) 461-4486				Is this project for any of the following?:			Electonic Limit Checke				er Standard Excel						
www.esslaboratory.com			O CT RCP O MA MCP O RGP			Deliverables Other (Please				se Specify →) PDF					1		
Company Name			ists. Inc	Project # 5675.F	Project Nai Pawtucket 1 Control House, 6 The												
Contact Person				Address			sis					1					
Mark Zoller				4 First Street		PO#	aly] .							
Bridgewater Mas			Massa	chusetts	02324	5675.F	٦										
Telephone Number			FAX N	lumber	Email Addre	ress		082	1								
508-697-3191				r	INZOHEF, KIOFIUS, DOITAICESCO, LQUILY(@COHECO.COM		<u> </u>	l m									
	Date	Time	Sample Type	Sample Matrix	Sam	iple ID		D D		1							
01	9/2/20	9:40 a.m.	Grab	Solid	ICS-		X	_									
02	9/2/20	9:45 a.m.	Grab	Solid	ICS-		x										
03	9/2/20	9:50 a.m.	Grab	Solid			X										
04	9/2/20	9:55 a.m.	Grab	Solid	ICS-03-64			X									
05	9/2/20	10:00 a.m.	Grab	Solid	ICS-03-65			X									
06	9/2/20	10:05 a.m.	Grab	Solid	ICS-		X										
07	9/2/20	10:10 a.m.	Grab	Solid	ICS		X										
08	9/2/20	10:15 a.m.	Grab	Solid	ICS		x		<u> </u>								
09	9/2/20	10:20 a.m.	Grab	Solid	ICS-		X	_							_		
10	9/2/20	10:25 a.m.	Grab	Solid	ICS-		X									_	
Co	ntainer Type:	AC-Air Casset	tte AG-Amber Glas	s B-BOD Bottle (C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	rile V-Vial	AG]		
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 mL	. 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other	9	1	1	<u> -</u>						
Preservation Code: 1-Non Preserved 2-HCI 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3					iethanol 7-Na2S2O3 8-ZnAce, NaO	0H 9-NH4CI 10-DI H2C) 11-Other*		_	-	┟┈┽┈	+ +					
Number of Containers per Sample: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																	
Laboratory Use Only Sampled by : DJD/LGG																	
Cooler Present:			Comments:	ecity "Uther" preservative and containers types in this space													
Seals Intact:				National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight, 11=ice													
Cooler Temperature: -O.8 °C				Homogenize Sample TSCA R	Full Data Package Add email: Jaevazelis@coneco.com												
Relinquished by: (Signature, Date & Time)			ate & Time)	Received By:	(Signature, Date & Time)	r: (Signature, Date & Time)				Received By: (Signature, Date & Time)							
Jult 9/3/20			2:30pm	TRI	9/3/20/440 TRI 0			9/3/20 1755				1/2 g/3/2 17:56					
Relinquished by: (Signature, Date & Time)			Received By:	ved By: (Signature, Date & Time) Relinquished B			r: (Signature, Date & Time)				Received By: (Signature, Date & Time)						
	<u> </u>			0							/						

Page 1 of 2

Page Z of Z CHAIN OF CUSTODY 2010/65 ESS Lab # ESS Laboratory **Turn Time** 5-Day Rush Reporting Division of Thielsch Engineering, Inc. <0.5 mg/kg PCBs Limits **Regulatory State** Rhode Island 185 Frances Avenue, Cranston RI 02910 Limit Checker Standard Excel Is this project for any of the following?: Electonic Tel. (401) 461-7181 Fax (401) 461-4486 () RGP **Deliverables** \checkmark Other (Please Specify \rightarrow) PDF ○ CT RCP O MA MCP www.esslaboratory.com Project # Project Name Сотрапу Name 5675.F Pawtucket 1 Control House, 6 Thorton St, Pawtucket RI Coneco Engineers & Scientists, Inc. Address Contact Person Analysis 4 First Street Mark Zoller PO # Zip Code State City 5675.F Massachusetts 02324 Bridgewater 8082 Email Address Telephone Number FAX Number Mzoller, Kloftus, Ddifrancesco, Lauiry@coneco.com 508-697-3191 PCBs ESS Lab Collection Collection Sample ID Sample Matrix Sample Type Date Time 1D Х ICS-04-28 9/2/20 10:30 a.m. Grab Solid of 11 х ICS-04-29 Grab Solid opn 9/2/20 10:35 a.m. х ICS-04-30 0313 Solid 9/2/20 10:40 a.m. Grab ICS-04-31 х Solid 9/2/20 Grab 0414 10:45 a.m. х ICS-04-32 Solid 9/2/20 10:50 a.m. Grab 05 **B-BOD Bottle** C-Cubitainer G - Glass O-Other P-Poly S-Sterile V-Vial AG AG-Amber Glass Container Type: AC-Air Cassette 11-Other 10-8 oz 9 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz Container Volume: 1-100 mL 7-Na2S2O3 8-ZnAce, NaOH 9-NH4CI 10-DI H2O 11-Other* 11 Preservation Code: 1-Non Preserved 2-HCI 6-Methanol 3-H2SO4 4-HNO3 5-NaOH Number of Containers per Sample: 1 DJD/LGG Laboratory Use Only Sampled by : Please specify "Other" preservative and containers types in this space Cooler Present: Comments: Seals Intact: National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight, 11≓ice Add email: Jaevazelis@coneco.com Cooler Temperature: °C Homogenize Sample TSCA Requirements, Provide Full Data Package Received By: (Signature, Date & Time) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinguished by: (Signature, Date & Time) 9/3/20 2:30 pm 913120 1440 9/3/20 1755 20 a 10 Received By: (Signature, Date & Time) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished by: (Signature, Date & Time)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0025

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:17 pm, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0025

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21E0025-01	ICS-01-87	Solid	8082A
21E0025-02	ICS-01-88	Solid	8082A
21E0025-03	ICS-01-89	Solid	8082A
21E0025-04	ICS-01-90	Solid	8082A
21E0025-05	ICS-01-91	Solid	8082A
21E0025-06	ICS-01-92	Solid	8082A
21E0025-07	ICS-01-93	Solid	8082A
21E0025-08	ICS-01-94	Solid	8082A
21E0025-09	ICS-01-95	Solid	8082A
21E0025-10	ICS-01-96	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0025

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0025

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-87 Date Sampled: 04/27/21 08:00 Percent Solids: 98 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 21:00	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
Aroclor 1254 [2C]	0.3 (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 21:00	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-88 Date Sampled: 04/27/21 08:05 Percent Solids: 98 Initial Volume: 5.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 21:19	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
Aroclor 1254 [2C]	0.2 (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
Aroclor 1260 [2C]	0.2 (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 21:19	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-89 Date Sampled: 04/27/21 08:10 Percent Solids: 98 Initial Volume: 5.51 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 21:38	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
Aroclor 1254 [2C]	0.2 (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
Aroclor 1260 [2C]	0.2 (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 21:38	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-90 Date Sampled: 04/27/21 08:15 Percent Solids: 98 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 21:58	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-91 Date Sampled: 04/27/21 08:20 Percent Solids: 98 Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 22:17	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 22:17	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-92 Date Sampled: 04/27/21 08:25 Percent Solids: 97 Initial Volume: 5.34 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 23:15	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 23:15	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		87 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-93 Date Sampled: 04/27/21 08:30 Percent Solids: 100 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 23:34	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
Aroclor 1254 [2C]	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 23:34	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-94 Date Sampled: 04/27/21 08:35 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 23:54	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
Aroclor 1254	0.2 (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 23:54	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-95 Date Sampled: 04/27/21 08:40 Percent Solids: 99 Initial Volume: 5.44 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1221	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1232	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1242	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1248	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1254	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1260	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1262	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
Aroclor 1268	ND (0.09)		8082A		1	05/06/21 0:13	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-96 Date Sampled: 04/27/21 08:45 Percent Solids: 97 Initial Volume: 5.31 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0025 ESS Laboratory Sample ID: 21E0025-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/06/21 0:32	Sequence D1E0066	<u>Batch</u> DE10406
Aroclor 1221	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
Aroclor 1232	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
Aroclor 1242	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
Aroclor 1248	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
Aroclor 1254	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
Aroclor 1260	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
Aroclor 1262	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
Aroclor 1268	ND (0.1)		8082A		1	05/06/21 0:32	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0025

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10406 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Surrageta: Decechlarabinhanul	0.0248		ma/ka wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [20]	0.0250		ma/ka wet	0.02500		100	30-150			
Surrogate: Decachiorobiphenyr [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
Aroclar 1016	0.4	0.02	ma/ka wet	0.5000		86	40-140	0.3	30	
Aroclor 1016 [2C]	0.4	0.02	ma/ka wet	0.5000		90	40-140	0.6	30	
Aroclor 1260	0.5	0.02	ma/ka wet	0.5000		92	40-140	0.7	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	0.3	30	
Surrogate: Decachlorobiphenyl	0.0247		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0247		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene	0.0213		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		90	30-150			
Matrix Spike Source: 21E0025-05										

Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0025

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch DE10406 - 3540C										
Aroclor 1016	1.4	0.1	mg/kg dry	1.992	ND	72	40-140			
Aroclor 1016 [2C]	1.5	0.1	mg/kg dry	1.992	ND	73	40-140			
Aroclor 1260	1.5	0.1	mg/kg dry	1.992	ND	77	40-140			
Aroclor 1260 [2C]	1.5	0.1	mg/kg dry	1.992	ND	76	40-140			
Surrogate: Decachlorobiphenyl	0.0856		mg/kg dry	0.09962		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0897		mg/kg dry	0.09962		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0742		mg/kg dry	0.09962		75	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0784		mg/kg dry	0.09962		79	30-150			
Matrix Spike Dup Source: 21E0025-05										
Aroclor 1016	1.5	0.09	mg/kg dry	1.831	ND	80	40-140	1	30	
Aroclor 1016 [2C]	1.5	0.09	mg/kg dry	1.831	ND	81	40-140	2	30	
Aroclor 1260	1.5	0.09	mg/kg dry	1.831	ND	83	40-140	1	30	
Aroclor 1260 [2C]	1.5	0.09	mg/kg dry	1.831	ND	83	40-140	1	30	
Surrogate: Decachlorobiphenyl	0.0851		mg/kg dry	0.09154		93	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0899		mg/kg dry	0.09154		98	30-150			
Surrogate: Tetrachloro-m-xylene	0.0758		mg/kg dry	0.09154		83	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0805		mg/kg dry	0.09154		88	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0025

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NR	Results reported as a mathematical average. No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0025

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0025	<u> </u>
Oblight and Mine ECO Courier	Breiget Dug Date: 5/3/2021	
Shipped/Delivered via:ESS Courier	Project Due Date. 5710/2021	
	Days for Project 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
	7. Is COC complete and correct?	Yes
2. Were custody seals present? No		
	8. Were samples received intact?	Yes
3. Is radiation count <100 CPM? Yes		
	9. Were labs informed about short holds & rushes?	Yes/No/NA)
4. Is a Cooler Present? Yes	•••••••••••••••••••••••••••••••••••••••	\sim
Temp: 3.9 lced with: lce	10. Were any analyses received outside of hold time?	Yes / No
· · · · · · · · · · · · · · · · · · ·	· ·	
5 Was COC signed and dated by client? Yes		
11 Any Subcontracting needed? Yes (/ No)	12. Were VOAs received?	Yes / No
ESS Sample IDe:	a Air hubbles in aqueous VOAs?	Yes / No
Analysis	h. Does methanol cover soil completely?	Yes / No / NA
	b. Dues methanol cover soll completely:	100711071171
13. Are the samples properly preserved? Yes a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
		<u> </u>
/	γ	
14. Was there a need to contact Project Manager? Yes /	No	
a. Was there a need to contact the client? Yes	No	
Who was contacted? Date:	✓ Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	160978	Yes	N/A	Yes	4 oz. Jar	NP	
2	160979	Yes	N/A	Yes	4 oz. Jar	NP	
3	160980	Yes	N/A	Yes	4 oz. Jar	NP	
4	160981	Yes	N/A	Yes	4 oz. Jar	NP	
5	160982	Yes	N/A	Yes	4 oz. Jar	NP	
6	160983	Yes	N/A	Yes	4 oz. Jar	NP	
7	160984	Yes	N/A	Yes	4 oz. Jar	NP	
8	160985	Yes	N/A	Yes	4 oz. Jar	NP	
9	160986	Yes	N/A	Yes	4 oz. Jar	NP	
10	160987	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached?



ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID:	_21E0025
	Date Received:	5/3/2021
Are VOA stickers attached if bubbles noted?	Yes / No / NA	
Completed By: Reviewed By:	Date & Time:	513/21 13/21

.

· ·																			5	3
		104 5			CHAIN	OF CUS	TODY		ES	S La	ab #	7.17	71~~	25		Pag	ge 🕌	1 0	f 3 7	ł
H		185 Fra Craneto	nces Avenue	Turn Time (Days)	⊡ >5 □ 5			Same Day		E	LECT	RONIC	DELI	/ERAE	BLES (I	Final .	Repor	is are P	DF)	
		Phone: 4	401-461-7181	Regulatory State:	Rhode Island	Criteria:	<0.5 mg/kg			Limi	it Chec	ker		tate For	rms		EQuIS			
		Fax: 40	01-461-4486		Is this projec	t for any of the	following?:			Exce	el		ΠH	lard Coj	ру	Π1	Enviro	Data		
IABORA	2Y	www.essla	boratory.com	CT RCP	🛛 МА МСР	🗖 RGP	🗖 Permit	□ 401 WQ		CLP	-Like I	Package	⊡ c	ther (Sj	pecify)	→ I	PDF			
	CLIENT	INFORMAT	FION		PROJEC	T INFORM	IATION					RE	QUES	FED A	ANAL	YSE	S			
Client	: Coneco Er	ngineers and Sci	ientists	Project Name:	Pawtucket I Control	House, 6 Thornton	n Street, Pawtucket, R	1 Client												5
Address	4 First Str	eet, Bridgewater	r, MA	Project Location:	6 Thorn	ton Street, Paw	tucket, RI	acknowledges												
				Project Number:		5675.F		that sampling												ľum
Phone	:	50869731	191	Project Manager:		Katie Loftus	1	is compliant												ber
Email				Bill to:		5675 E		State regulatory	22	9										ofB
Distribution List:				PO#:		30/3.F		programs	280	Ĩ										1 the
	Jaevazelis, N Collectio	Azoller, Kloftus, ddi n Collection	ifrancesco@coneco.con	n Quote#:		0			Bsb	M	<									š
ESS Lab ID	Date	Time	Sample Type	Sample Matrix		Sai	mple ID		PC	2			++							
١	4/27/2	1800 am	Grab	Concrete	ICS-	-01 -8	7		X											
2	' \'	8:05 um	1		Ics-	- 01 - 8	8		X											
3		8:10 cm			ICS	- 01 - 2	89		X											
- G		8:15 am			ÍCS	-01 -	- 90		X											
5		8:20 um			TCS	5 - 01 -	. 91	······	X	X										
6		8:25 pm			tr.	5 - 01 -	92		X											
2		8:30 cm			<u> </u>	<u>s - 01 -</u>	93		X											
8		8: 75 w			Ť	- 10 - 01 -	94		X					.						
å		8:40 cm			, T/	'S - 61 - ⁽	95		X										-	
01		8:45 cm		↓ ↓	<u> </u>	-10 - 10	.96		X											
Сог	tainer Typ	e: AC-A	ir Cassette AG-Am	ber Glass B-BOD Bot	le C-Cubitainer	J-Jar O-Oth	ner P-Poly S-St	erile V-Vial	AG							\square				
Conta	iner Volum	ie: 1-100	mL 2-2.5 gal 3-2	250 mL 4-300 mL 5-	500 mL 6-1L '	7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	٩											
Preser	vation Cod	le: 1-Non Pr	eserved 2-HCl 3-H2S	04 4-HNO3 5-NaOH 6	-Methanol 7-Na2S2	O3 8-ZnAce, Na	OH 9-NH4CI 10-D	H2O 11-Other*	11											
	Sampled b	y:					Chain	needs to be fi	lled	lou	t nea	tly an	d con	plete	ly for	on	time	delive	ery.	
Lab	oratory Us	e Only	Comments:	* Please specify "C	ther" preservat	tive and conta	iners types in th	is space	A	ll sa	mples	s submi	itted ar	e subje	ect to		Dissol	ved Filt	ratio	n
Cooler Tem	perature (°C)	3.9	National Grid Pro	ject, TSCA requireme	nts, use manual s	soxhlet extracti	ion per EPA meth	od 3540, Report	E	SS L	abora	tory's p	baymer	ıt term	is and					
	,	1Ce	ary weight, nomo	genize sample, provid	e fun uata packaj	ge, 11 Ice						condi	tions.					Lab	Filter	
Relinqu	uished by (S	Signature)	Date	Time	Received by	(Signature)	Relinquish	ed by (Signature)			Da	te		Time	2	R	eceived	by (Si	gnatu	re)
n.	A-1		10/1		4	513/21	1				- 1	,			,	19	an	510	with	3
Pana	Donn	nn	1/30/21	1:01 pm	for Au	× 12.11	Hom De			5	13	(2)	16	.94	/	5	312	16	44	
Relinqu	uished by (S	Signature)	Date	Time	Received by	(Signature)	Relinquish	ed by (Signature)			Da	te		Time	2	R	eceiveo	l by (Si	gnatu	re)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0026

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:18 pm, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0026

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21E0026-01	ICS-01-97	Solid	8082A
21E0026-02	ICS-03-71	Solid	8082A
21E0026-03	ICS-04-33	Solid	8082A
21E0026-04	ICS-04-34	Solid	8082A
21E0026-05	ICS-04-35	Solid	8082A
21E0026-06	ICS-04-36	Solid	8082A
21E0026-07	ICS-05-11	Solid	8082A
21E0026-08	ICS-05-12	Solid	8082A
21E0026-09	DUP-14	Solid	8082A
21E0026-10	ICS-01-33 0.5-1.0	Solid	8082A
21E0026-11	ICS-01-33 1-2	Solid	8082A
21E0026-12	ICS-01-33 2-3	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0026

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0026

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-97 Date Sampled: 04/27/21 08:50 Percent Solids: 99 Initial Volume: 5.26 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 22:33	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 22:33	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 22:33	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 22:33	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 22:33	D1E0038	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/04/21 22:33	D1E0038	DE10325
Aroclor 1260 [2C]	5.8 (0.5)		8082A		5	05/06/21 6:02	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 22:33	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 22:33	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		89 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		97 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-03-71 Date Sampled: 04/27/21 08:55 Percent Solids: 99 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 22:53	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 22:53	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 22:53	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 22:53	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 22:53	D1E0038	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/04/21 22:53	D1E0038	DE10325
Aroclor 1260 [2C]	5.6 (0.5)		8082A		5	05/06/21 6:21	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 22:53	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 22:53	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		87 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>96 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-33 Date Sampled: 04/27/21 09:00 Percent Solids: 99 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 23:12	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
Aroclor 1254	0.5 (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 23:12	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-34 Date Sampled: 04/27/21 09:05 Percent Solids: 99 Initial Volume: 5.37 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 23:31	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
Aroclor 1254	0.2 (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
Aroclor 1260 [2C]	0.3 (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
Aroclor 1268	ND (0.09)		8082A		1	05/04/21 23:31	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-35 Date Sampled: 04/27/21 09:10 Percent Solids: 99 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 05/04/21 23:51	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
Aroclor 1254	0.5 (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
Aroclor 1260	0.7 (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 23:51	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-04-36 Date Sampled: 04/27/21 09:15 Percent Solids: 99 Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 0:10	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
Aroclor 1254	0.3 (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
Aroclor 1260	0.4 (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 0:10	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-11 Date Sampled: 04/27/21 09:20 Percent Solids: 100 Initial Volume: 5.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 3:43	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 3:43	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 3:43	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 3:43	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 0:30	D1E0038	DE10325
Aroclor 1254	0.3 (0.1)		8082A		1	05/05/21 0:30	D1E0038	DE10325
Aroclor 1260 [2C]	0.6 (0.1)		8082A		1	05/05/21 3:43	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 3:43	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 3:43	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-05-12 Date Sampled: 04/27/21 09:25 Percent Solids: 99 Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 0:49	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
Aroclor 1260 [2C]	0.6 (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 0:49	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		91 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-14 Date Sampled: 04/27/21 09:30 Percent Solids: 99 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 1:08	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
Aroclor 1260 [2C]	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 1:08	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>96 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>99 %</i>		30-150				



LABORATORY

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-33 0.5-1.0 Date Sampled: 04/28/21 08:00 Percent Solids: 98 Initial Volume: 5.27 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 1:28	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 1:28	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		101 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		100 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-33 1-2 Date Sampled: 04/28/21 08:05 Percent Solids: 99 Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-11 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 1:47	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 1:47	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>98 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



LABORATORY

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-33 2-3 Date Sampled: 04/28/21 08:10 Percent Solids: 99 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0026 ESS Laboratory Sample ID: 21E0026-12 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/3/21 20:40

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 2:06	Sequence D1E0038	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 2:06	D1E0038	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



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ESS Laboratory Work Order: 21E0026

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
L		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		- <i>1</i>		. ,-						
Batch DE10325 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet		-					
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Arocior 1262	ND	0.02	mg/kg wet							
Arocior 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Arocior 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0258		mg/kg wet	0.02500		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0250		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0222		mg/kg wet	0.02500		89	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Surragata: Decachlorobinhonul	0.0262		ma/ka wet	0.02500		105	30-150			
Surrogate: Decachlorobinhenyl [2C]	0.0255		ma/ka wet	0.02500		102	30-150			
Surrogate: DecacilioioDiffileIlyi [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-vulene [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		90	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140	3	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		96	40-140	1	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	0.6	30	
			r							
Surrogate: Decachlorobiphenyl	0.0267		mg/kg wet	0.02500		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0260		mg/kg wet	0.02500		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.0218		mg/kg wet	0.02500		8/	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			


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Notes and Definitions

UAnalyte included in the analysis, but not detectedDDiluted.NDAnalyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged AnalytesdrySample results reported on a dry weight basisRPDRelative Percent DifferenceMDLMethod Detection LimitMRLMethod Reporting LimitLOQLimit of DetectionLOQLimit of DetectionDLDetection LimitVInitial VolumeF/VFinal Volume§Subcontracted analysis; see attached report1Range result excludes concentrations of surrogates and/or internal standards eluting in that range.2Range result excludes concentrations of target analytes eluting in that range.3Range result excludes the concentration of the C9-C10 aromatic range.AvgResults reported as a mathematical average.NRNo Recovery[CALC]Calculated AnalyteSUBSubcontracted analysis; see attached reportRLReporting LimitEDLEstimated Detection LimitMFMembrane FiltrationMRNo RecoveryICALC]Calculated AnalyteSUBSubcontracted analysis; see attached reportRLReporting LimitEDLEstimated Detection LimitMFMembrane FiltrationMPNMost Probably NumberTNTCToo numerous to CountCNTCToo numerous to CountCNTCToo numerous to Count <tr <td="">Count Forming Units<!--</th--><th></th><th></th></tr> <tr><td>DDiluted.NDAnalyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged AnalytesdrySample results reported on a dry weight basisRPDRelative Percent DifferenceMDLMethod Detection LimitMRLMethod Reporting LimitLODLimit of DetectionLOQLimit of QuantitationDLDetection LimitI/VInitial VolumeF/VFinal Volume§Subcontracted analysis; 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	CFU	Colony Forming Units																																																																																	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0026

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0026	
Shipped/Delivered Via: ESS Courier	Project Due Date: 5/10/2021 Days for Project: 5 Day	_
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
	7. Is COC complete and correct?	Yes
2. Were custody seals present? NO	8. Were samples received intact?	Yes
3. Is radiation count <100 CPM? Yes	9 Were labe informed about short holds & rushes?	Yes / Nov NA
4. Is a Cooler Present? Yes Temp: 3.9 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? Yes / No Yes / No Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	160988	Yes	N/A	Yes	4 oz. Jar	NP	
2	160989	Yes	N/A	Yes	4 oz. Jar	NP	
3	160990	Yes	N/A	Yes	4 oz. Jar	NP	
4	160991	Yes	N/A	Yes	4 oz. Jar	NP	
5	160992	Yes	N/A	Yes	4 oz. Jar	NP	
6	160993	Yes	N/A	Yes	4 oz. Jar	NP	
7	160994	Yes	N/A	Yes	4 oz. Jar	NP	
8	160995	Yes	N/A	Yes	4 oz. Jar	NP	
9	160996	Yes	N/A	Yes	4 oz. Jar	NP	
10	160997	Yes	N/A	Yes	8 oz jar	NP	
11	160998	Yes	N/A	Yes	8 oz jar	NP	
12	160999	Yes	N/A	Yes	8 oz jar	NP	

2nd Review Were all containers





ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID:	21E0026
	Bate Received:	5/3/2021
Are all Hex Chrome stickers attached?	Yes / No / NA	
Are all QC stickers attached?	Yes / Np / NA	
Are VOA stickers attached if bubbles noted?	Yes / No / NA	
	0	
		- molal
By:	Date & Time:	3 3321
Reviewed VD	Date & Time:	28 844
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HYCH		So Frances Avenue	Turn Time (Days)			Same Day		ELECTRO	NIC DE	LIVERA	BLES (I	inal Re	ports arc	PDF)	
	Pho	one: 401-461-7181	Regulatory State:	Rhode Island Criteria:	<0.5 mg/kg		🗖 Liı	mit Checker		State F	orms	□ EQ	uIS		
	Fa	ax: 401-461-4486		Is this project for any of the	e following?:		🗆 Ex	cel	C] Hard C	ору	🗆 En	/iro Data		
LABGRA	21 <u>www</u>	.esslaboratory.com	CT RCP	MA MCP RGP	D Permit	🖾 401 WQ	🗆 cı	P-Like Pack	age 🗹] Other (Specify) -	→ PD	2		
	CLIENT INFOR	MATION		PROJECT INFORM	IATION]	REQU	ESTED	ANAL	YSES			
Client:	Coneco Engineers an	nd Scientists	Project Name:	Pawtucket I Control House, 6 Thornto	n Street, Pawtucket, RI	Client								\square	н
Address:	4 First Street, Bridge	ewater, MA	Project Location:	6 Thornton Street, Paw	/tucket, RI	acknowledges							[otal
			Project Number:	5675.F		that sampling									Nu
Phone:	508	6973191	Project Manager:	Katie Loftus	1	is compliant									nbe
Email			Bill to:			with all EPA /	2								of
Distribution			PO#:	5675.F		State regulatory	808								Bot
List:	Jaevazelis, Mzoller, Klof	ftus, ddifrancesco@coneco.com	n Quote#:			programs	s by								tles
ESS Lab ID	Collection Collection	ction Sample Type	Sample Matrix	Sa	mple ID		PCB								
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5	9:10	on		I/S-04	-35		x								
6	9:15	cn		TCS-04	1-36		X								
37	9:70	am		ICS-05			x								
	9:75	CM		FCS = 0	5-12		x								
a	4 9:30	am		DVP-	14		X								
in	4/28/21 8:00	an V		ICS-01	-33 (0.5-	-1.0)	X								
Cont	tainer Type:	AC-Air Cassette AG-Am	ber Glass B-BOD Bot	tle C-Cubitainer J-Jar O-Oth	ter P-Poly S-Ste	erile V-Vial	AG								
Contair	ner Volume:	1-100 mL 2-2.5 gal 3-2	250 mL 4-300 mL 5-	500 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	٩/١٥								
Preserv	vation Code: 1-1	Non Preserved 2-HCI 3-H2S	O4 4-HNO3 5-NaOH 6	-Methanol 7-Na2S2O3 8-ZnAce, Nat	OH 9-NH4Cl 10-DI	H2O 11-Other*	iı								
S	Sampled by :	· · · · · · · · · · · · · · · · · · ·	·		Chain r	needs to be fil	led o	ut neatly	and c	omplet	ely for	on tir	ae deli	very.	
Labo	oratory Use Only	Comments:	* Please specify "C	ther" preservative and conta	iners types in thi	is space	Alls	samples sul	bmitted	l are sub	iect to	n:	ashuad F	ltustion	
Cooler Temp	erature (°C): 3.9	National Grid Pro	ject, TSCA requireme	ents, use manual soxhlet extracti	ion per EPA metho	od 3540, Report	ESS	Laboratory	/s payr	nent terr	, ns and	DI	soiveu r	nu anon	
	140	dry weight, homo	genize sample, provid	e full data package, 11 = Ice				co	ndition	S.		Ľ] La	b Filter	
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		Dhone: A	n, KI 02910 101-461-7181	Regulatory State:	Rhode Island Criteria:	<0.5 mg/kg		ΠL	imit Che	cker	□s	tate For	ms	ΞE	QuIS		
Lak		Fax: 40	1-461-4486	Aloguntory butter	Is this project for any of the	following?:	<i></i>	DΕ	xcel		ΠH	Iard Co	ру	Ε	inviro D	ata	
LABORA	QΥ	www.essla	boratory.com	CT RCP	□ MA MCP □ RGP	Permit	🖬 401 WQ		LP-Like	Package	2 C)ther (S	pecify)	→ P	DF		
		FORMAT	ION		PROJECT INFORM	ATION	11 8 -11			RE	QUES	TED A	ANAL	YSES	\$		
Client:	Coneco Engi	neers and Sci	entists	Project Name:	Pawtucket 1 Control House, 6 Thornton	1 Street, Pawtucket, R	II Olicet										Пы
Address:	4 First Street	Bridgewater	, MA	Project Location:	6 Thornton Street, Paw	tucket, RI	acknowledges										otal
				Project Number:	5675.F		that sampling										Nu
Phone:		50869731	91	Project Manager:	Katie Loftus		is compliant										nbe
Email				Bill to:			with all EPA /	2									P of
Distribution				PO#:	5675.F		State regulatory	808					1			1	Bott
List:	Jaevazelis, Mzo	ller, Kloftus, ddi	francesco@coneco.com	Quote#:			programs	s by									les
ESS Lab ID	Collection	Collection	Sample Type	Sample Matrix	Sar	nple ID		Б Ц			1						
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Contai	ner Volume:	1-100	mL 2-2.5 gal 3-3	250 mL 4-300 mL 5-	500 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	z 11-Other*	10		++	+	_		╂┣-	++	\rightarrow	┼ ┤
Preser	vation Code:	1-Non Pre	eserved 2-HCl 3-H2S	O4 4-HNO3 5-NaOH 6	-Methanol 7-Na2S2O3 8-ZnAce, Nac		THEO TI-Other*				daan	mlote	Jy for			aliva	<u> </u>
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Lab	oratory Use (Dnly	Comments:	* Please specify "O	ther" preservative and conta	iners types in th	is space	A11	sample	es subm	itted ar	e subj	ect to		Dissolv	ed Filtr	ation
Cooler Temp	erature (°C):	3.9	National Grid Pro	ject, TSCA requireme	nts, use manual soxhlet extracti e full data package. 11 = Ice	on per EPA meth	hod 3540, Keport	ES!	S Labor	atory's j	paymer	nt term	is and				
		100	dry weight, homo	geinze sample, provid	e full data paekage, 11 100					condi	tions.					Lab F	ilter
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2110146

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:33 pm, Sep 16, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0146

SAMPLE RECEIPT

The following samples were received on September 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Revision 1 September 16, 2021: This report has been revised to include updated IDs for 2110146-08 through -10.

Lab Number	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
21I0146-01	ICS-01-98	Solid	8082A
2110146-02	ICS-01-99	Solid	8082A
21I0146-03	ICS-01-100	Solid	8082A
21I0146-04	ICS-01-101	Solid	8082A
21I0146-05	DUP-15	Solid	8082A
21I0146-06	ICS-01-102	Solid	8082A
21I0146-07	ICS-01-103	Solid	8082A
21I0146-08	ICS-02-16	Solid	8082A
2110146-09	ICS-02-17	Solid	8082A
21I0146-10	ICS-02-18	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 2110146

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0146

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-98 Date Sampled: 09/01/21 09:05 Percent Solids: 98 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	<u>Batch</u> D110709
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 19:20	D110112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 19:20	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 19:20	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 19:20	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 19:20	D1I0112	DI10709
Aroclor 1260	0.3 (0.1)		8082A		1	09/10/21 19:20	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 19:20	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 19:20	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-99 Date Sampled: 09/01/21 09:35 Percent Solids: 96 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 20:19	Sequence D1I0112	<u>Batch</u> DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 20:19	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-100 Date Sampled: 09/01/21 09:45 Percent Solids: 97 Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{\mathbf{I}}$	Analyzed	Sequence	Batch
Aroclor 1018	ND (0.1)		8082A		1	09/10/21 20:39	D110112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 20:39	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 20:39	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 20:39	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 20:39	D1I0112	DI10709
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 20:39	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 20:39	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 20:39	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		85 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-101 Date Sampled: 09/01/21 09:15 Percent Solids: 97 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-04 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 20:59	Sequence D1I0112	<u>Batch</u> DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
Aroclor 1260 [2C]	0.6 (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 20:59	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-15 Date Sampled: 09/01/21 09:20 Percent Solids: 96 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-05 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	MDL	<u>Method</u>	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1260	0.2 (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 21:18	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-102 Date Sampled: 09/01/21 09:25 Percent Solids: 96 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-06 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 0:16	Sequence D1I0112	<u>Batch</u> DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
Aroclor 1260 [2C]	1.0 (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/11/21 0:16	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-103 Date Sampled: 09/01/21 09:30 Percent Solids: 93 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-07 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 0:35	Sequence D1I0112	<u>Batch</u> DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
Aroclor 1260	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/11/21 0:35	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-16 Date Sampled: 09/01/21 12:20 Percent Solids: 100 Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-08 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 0:55	Sequence D1I0112	<u>Batch</u> DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
Aroclor 1260	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/11/21 0:55	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		60 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-17 Date Sampled: 09/01/21 12:25 Percent Solids: 100 Initial Volume: 5.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110146 ESS Laboratory Sample ID: 2110146-09 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 1:15	Sequence D1I0112	<u>Batch</u> DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
Aroclor 1254	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
Aroclor 1260	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/11/21 1:15	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		75 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-02-18 Date Sampled: 09/02/21 09:15 Percent Solids: 100 Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21I0146 ESS Laboratory Sample ID: 21I0146-10 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 1:35	Sequence D1I0112	<u>Batch</u> DI10709
Aroclor 1221	ND (0.1)		8082A		1	09/11/21 1:35	D1I0112	DI10709
Aroclor 1232	ND (0.1)		8082A		1	09/11/21 1:35	D1I0112	DI10709
Aroclor 1242	ND (0.1)		8082A		1	09/11/21 1:35	D1I0112	DI10709
Aroclor 1248	ND (0.1)		8082A		1	09/11/21 1:35	D1I0112	DI10709
Aroclor 1254 [2C]	16.4 (0.5)		8082A		5	09/12/21 11:24	D1I0112	DI10709
Aroclor 1260	ND (0.1)		8082A		1	09/11/21 1:35	D1I0112	DI10709
Aroclor 1262	ND (0.1)		8082A		1	09/11/21 1:35	D1I0112	DI10709
Aroclor 1268	ND (0.1)		8082A		1	09/11/21 1:35	D1I0112	DI10709
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



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ESS Laboratory Work Order: 21I0146

Quality Control Data

				Spike	Source	0/550	%REC	055	RPD	0 10
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DI10709 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0211		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0196		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [20	[] 0.0224		mg/kg wet	0.02500		90	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Surrageta: Decechlorobinhonyl	0.0222		ma/ka wet	0.02500		89	30-150			
Surrogate: Decachlorobiphenyl [20]	0.0226		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-vylene	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-vylene [20	0.0229		mg/kg wet	0.02500		92	30-150			
Aroclor 1016	0.4	0.02	ma/ka wet	0 5000		87	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	3	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		88	40-140	1	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140	3	30	
	F.U	0.02	ing/kg wet	0.000		00	UTI UF	J	50	
Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [20]	<i>0.0216</i>		mg/kg wet	0.02500		87	30-150			
Matrix Spike Source:	2110146-01									



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ESS Laboratory Work Order: 21I0146

Quality Control Data

					Spike	Source		%REC		RPD	
Analyte		Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DI10709 - 354	40C										
Aroclor 1016		1.8	0.1	mg/kg dry	2.015	ND	89	40-140			
Aroclor 1016 [2C]		1.7	0.1	mg/kg dry	2.015	ND	85	40-140			
Aroclor 1260		1.9	0.1	mg/kg dry	2.015	0.3	79	40-140			
Aroclor 1260 [2C]		2.0	0.1	mg/kg dry	2.015	0.3	83	40-140			
Surrogate: Decachlorol	biphenyl	0.0831		mg/kg dry	0.1007		82	30-150			
Surrogate: Decachlorol	biphenyl [2C]	0.0900		mg/kg dry	0.1007		89	30-150			
Surrogate: Tetrachloro	-m-xylene	0.0764		mg/kg dry	0.1007		76	30-150			
Surrogate: Tetrachloro-m-xylene [2C]		0.0868		mg/kg dry	0.1007		86	30-150			
Matrix Spike Source: 2110146-05											
Aroclor 1016		1.4	0.1	mg/kg dry	2.015	ND	69	40-140			
Aroclor 1016 [2C]		1.4	0.1	mg/kg dry	2.015	ND	69	40-140			
Aroclor 1260		1.4	0.1	mg/kg dry	2.015	0.2	59	40-140			
Aroclor 1260 [2C]		1.6	0.1	mg/kg dry	2.015	0.2	70	40-140			
Surrogate: Decachlorobiphenyl		0.0731		mg/kg dry	0.1007		73	30-150			
Surrogate: Decachlorol	biphenyl [2C]	0.0804		mg/kg dry	0.1007		80	30-150			
Surrogate: Tetrachloro	-m-xylene	0.0720		mg/kg dry	0.1007		71	30-150			
Surrogate: Tetrachloro	-m-xylene [2C]	0.0800		mg/kg dry	0.1007		79	30-150			
Matrix Spike Dup	Source: 21I0146-01										
Aroclor 1016		1.8	0.1	mg/kg dry	2.027	ND	89	40-140	0.3	30	
Aroclor 1016 [2C]		1.7	0.1	mg/kg dry	2.027	ND	84	40-140	0.5	30	
Aroclor 1260		1.9	0.1	mg/kg dry	2.027	0.3	79	40-140	0.4	30	
Aroclor 1260 [2C]		1.9	0.1	mg/kg dry	2.027	0.3	81	40-140	2	30	
Surrogate: Decachlorol	biphenyl	0.0813		mg/kg dry	0.1013		80	30-150			
- Surrogate: Decachlorol	biphenyl [2C]	0.0865		mg/kg dry	0.1013		85	30-150			
Surrogate: Tetrachloro	-m-xylene	0.0706		mg/kg dry	0.1013		70	30-150			
Surrogate: Tetrachloro	-m-xylene [2C]	0.0820		mg/kg dry	0.1013		81	30-150			
Matrix Spike Dup	Source: 2110146-05										
Aroclor 1016		1.6	0.1	mg/kg dry	2.055	ND	78	40-140	15	30	
Aroclor 1016 [2C]		1.6	0.1	mg/kg dry	2.055	ND	79	40-140	15	30	
Aroclor 1260		1.7	0.1	mg/kg dry	2.055	0.2	72	40-140	20	30	
Aroclor 1260 [2C]		1.8	0.1	mg/kg dry	2.055	0.2	80	40-140	14	30	
Surrogate: Decachlorol	biphenyl	0.0835		mg/kg dry	0.1027		81	30-150			
Surrogate: Decachlorol	. , biphenyl [2C]	0.0893		mg/kg dry	0.1027		87	30-150			
Surrogate: Tetrachloro	-m-xylene	0.0803		mg/kg dry	0.1027		78	30-150			
Surrogate: Tetrachloro	-m-xylene [2C]	0.0902		mg/kg dry	0.1027		88	30-150			



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ESS Laboratory Work Order: 21I0146

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
	Detection Limit
I/V F/V	Final Volume
17 V 0	
8 1	Subcontracted analysis; see attached report
1	Range result excludes concentrations of target analytes eluting in that range.
2	Range result excludes the concentration of the $C9-C10$ aromatic range
Avg	Results reported as a mathematical average
NR	No Recoverv
[CALC]	Calculated Analyte
SUB	Subcontracted analysis: see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units
51 0	



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ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

> Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21/0146	
Shipped/Delivered Via: ESS Courier	Project Due Date: 9/13/2021 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	
4. Is a Cooler Present? Yes Temp: 4.1 Iced with: Ice	 Were labs informed about <u>short holds & rusnes</u> Were any analyses received outside of hold time? 	Yes / Ng
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / to ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: 	Time: By: Time: By:	_
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes / No Yes / No Time: By:	_

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	204248	Yes	N/A	Yes	4 oz. Jar	NP	
2	204249	Yes	N/A	Yes	4 oz. Jar	NP	
3	204250	Yes	N/A	Yes	4 oz. Jar	NP	
4	204251	Yes	N/A	Yes	4 oz. Jar	NP	
5	204252	Yes	N/A	Yes	4 oz. Jar	NP	
6	204253	Yes	N/A	Yes	4 oz. Jar	NP	
7	204254	Yes	N/A	Yes	4 oz. Jar	NP	
8	204255	Yes	N/A	Yes	4 oz. Jar	NP	
9	204256	Yes	N/A	Yes	4 oz. Jar	NP	
10	204257	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached?

KL Yes / No Yes / No / NA Initials Yes / No 🖉 NA

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Co	neco Engineers, Scientists & Surv - KPB/TB		ESS Project ID:	2110146	
Are VOA stickers	attached if bubbles noted?	Y	Date Received:	9/3/2021	
Completed By:	ha	Date & Time:	4-3-21	18:19	
Reviewed By:	QLt	Date & Time:	9/3/2	1911	

T		185 Em	cec Avenue		ESS La	b# כ	10 01	46	-	Page 1 of 1			1			
H XWX		Cransto	n. RI 02921	Turn Time (Days)	□>5 🕅 5 □4 □3		📋 Same Day	EL	ECTRO	NIC DEL	IVERABL	ES (F	inal Re	eports a	re PDF)
		Phone: 4	01-461-7181	Regulatory State:	Rhoup ISI and Criteria:	20.500	M	🗆 Limit	Checker		State Form	ns	□ EQ	uIS		
	35 -	Fax: 40	1-461-4486		Is this project for any of the	e following?:		D Exce	l		Hard Copy	y I	En En	viro Dat	а	
IVPOBVIC	2Y	www.essla	boratory.com	□CT RCP	□ MA MCP □ RGP	Permit	□401 WQ	□ CLP-	Like Pacl	age 🕱	Other (Spe	æify) –	→ P	PF		
C	LIENT I	NFORMAT	ION		PROJECT INFORM	ATION			l	EQUE	STED AI	NALY	(SES			
Client:	Coneco Eng	gineers & Scien	ntists, Inc	Project Name:	Pawtviket 1 control HOV	3e	Client									- [
Address:	4 First Stree	st 👘		Project Location:	6 MOTATOA St. Powhici	icet RT	acknowledges									otal
	Bridgewate	, Massachusett	ts 02324	Project Number: 5675.F inat sampling				M								Nun
Phone:	508-697-31	91 	~	Project Manager:	Kahe bEtvs		with all EPA /	25								aber
Email (Jaevalle VISTUS	s mzolur XV sacas	s u cmacuch.	Bill to:	Environmental AP	. 1	State	65								e î
List: 2	n inail N	10 Della a	Gione in war	PO#:	5617 8.00	<u>.</u>	regulatory	2							1.	ott
41	Collection	Collection	000000000	Quote#:			programs	<u>ک</u> اک								S
ESS Lab ID	Date	Time	Sample Type	Sample Matrix	Sa	mple ID									\square	
1	9/1/21	9:05an	Gmb	Concrete	ICS-01-9	8		\times \star						:		1
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4		9:15-			$I(s-\alpha) = 10$			X				++				17
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6		9.25			$\frac{V_{0}}{T(s-\omega-\omega)}$	1			· ·						++	<u>+(</u>
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0	$\overline{\mathbf{v}}$	12.75 an			<u> </u>	$\frac{1}{100}$ $\frac{1}{100}$	7	\bigcirc				++				
10	- 9/2121	9:15 000		J.	Trend			$\frac{1}{\sqrt{1}}$			+				+	++
Cont	ainer Type	AC-Ai	I r Cassette AG-Amb	er Glass B-BOD Bot	tle C-Cubitainer J-Jar O-Oth	rer P-Poly S-Ste	2- <u>18 JA 9-14-21</u> rrile V-Vial	A6		+		┽┽		<u>├</u>	┢┼╋	+
Contain	er Volume	: 1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	-500 mL 6-1L 7-VOA 8-2 oz	: 9-4 oz 10-8 oz	11-Other*	a				++				$\exists \mathcal{C}$
Preserv	ation Code	: 1-Non Pres	served 2-HCl 3-H2SC	04 4-HNO3 5-NaOH 6	-Methanol 7-Na2S2O3 8-ZnAce, Na	OH 9-NH4Cl 10-DI	H2O 11-Other*	n l								1
S	ampled by	: MU/D	CK/CSM/	MHN		Chain n	eeds to be fill	ed out :	neatly	and co	mpletely	y for (on tir	ne de	livery	·.
Labo	ratory Use	, Only	Comments:	* Please specify "O	Other" preservative and conta	ainers types in thi	is space	Allsan	mles sul	mitted	are subjec	t to	~			
Cooler Tempe	rature (°C):	4.1	=i(a	~	Marvaj Joxnes Ex Morrod 3541	traction per	EPA	ESS La	boratory	's paym	ent terms	and	Dis	solved	filtratio	on
	<i>xuuu</i> (0).	1 62	Nation	albid Pro	Ject Humogenize, TSC	AREquiency	Full Data		CO	nditions	I.			L	ab Filte	л л
Relinquis	shed by (Si	gnature)	Date	Time	Received by (Signature)	Relinquishe	ed by (Signature)		Date		Time		Recei	ived by	(Signat	ture)
	1	×		-	9/3/21								1	7	ትን	5-71
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Relinquis	shed by (Si	gnature)	Date	Time	Received by (Signature)	Relinquishe	ed by (Signature)) Date Time			Time	Received by (Signature)				
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1																

Page 21 of 22

	185 Emprose Avenue CHAIN OF CUSTODY					ESS Lab # 2170146					Page 1 of 1		
	Cranston, RI 02921	Turn Time (Days)	□>5 🕅 5 🖂 4 🖂 3	ELECTRONIC DELIVERABLES (Final Reports are PDF)									
(20)20 P	hone: 401-461-7181	Regulatory State:	State: Rhoup ISI and Criteria: 20,500M				Checker	State For	ms	D EQ	uIS		
	Fax: 401-461-4486		Is this project for any of the following?:					Excel Hard Copy Enviro Data					
TYROBUTORA	w.esslaboratory.com	□CT RCP	□ MA MCP □ RGP	Permit	□401 WQ	CLP-L	ike Package	e 🚿 Other (Sp	ecify) -	→ Pi	ØF		
CLIENT INFO	RMATION		PROJECT INFORM	MATION			RE	QUESTED A	NAL	YSES			
Client: Coneco Engineers	& Scientists, Inc	Project Name:	Pawtviket 1 control HOV	Client							Ţ.		
Address: 4 First Street		Project Location:	6 Invinton St. Powhich	icet RT	acknowledges							otal	
Bridgewater, Mass	sachusetts 02324	Project Number: 5675.F that sampling is compliant											
Phone: 508-697-3191		Project Manager: Kake 67vs with all EPA /										nber	
Email Jaevallus ma	ZOLUSS	Bill to: Environmental AP State										fi	
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Collection Col	lection	Quote#:	_	کيا≳						es			
ESS Lab ID Date T	Time Sample Type	Sample Matrix	Sa	mple ID									
9/1/21 9:0	San Gmb	Concrete	ICS-01-9	<u>18</u>		\times \star					:	1	
2 9:3	San]	ì	ICS-01-99	9		×						1	
3 9:4	5 an		Trr-01-10	0		X				· · ·		1	
4 9:10	Same l		$I(s-\alpha) = 10$,,	X								
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8 12:2	20 pm		ICS-02-0	01		X			$\downarrow \downarrow$				
a V 12.	25pm		ICS-02-	02		Y							
10 9/2/21 9:1	5 an V	5	ICS-02	- 03		Ý I							
Container Type:	AC-Air Cassette AG-Am	ber Glass B-BOD Bot	ttle C-Cubitainer J-Jar O-Oth	her P-Poly S-Steril	e V-Vial	96							
Container Volume:	1-100 mL 2-2.5 gal 3-2	250 mL 4-300 mL 5	-500 mL 6-1L 7-VOA 8-2 oz	z 9-4 oz 10-8 oz	11-Other*	9							
Preservation Code:	1-Non Preserved 2-HCl 3-H2S	04 4-HNO3 5-NaOH (5-Methanol 7-Na2S2O3 8-ZnAce, Nat	OH 9-NH4CI 10-DIH2	20 11-Other*	\mathbf{n}						<u> </u>	
Sampled by : M	<u>IW/DCK/CSM</u>	MHN		Chain nee	eds to be fille	ed out n	eatly and	d completel	y for	on tir	ne deli	very.	
Laboratory Use Only	Comments:	* Please specify "(Dther" preservative and conta	ainers types in this	space	All samp	les submi	itted are subje	ct to	Dis	solved Fi	ltration	
Cooler Temperature (°C): 4./	11=16	Method 3546. Driveights in her				ESS Laboratory's payment terms and							
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Page 22 of 22



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F.101.4) ESS Laboratory Work Order Number: 21J0813

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:23 pm, Oct 29, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0813

SAMPLE RECEIPT

The following samples were received on October 22, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 21J0813-01

Sample Name ICS-01-104 **Matrix** Solid Analysis 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0813

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0813

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

ESS Laboratory



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: ICS-01-104 Date Sampled: 10/21/21 09:44 Percent Solids: 98 Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0813 ESS Laboratory Sample ID: 21J0813-01 Sample Matrix: Solid Units: mg/kg dry Analyst: JLG Prepared: 10/22/21 20:10

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/25/21 17:04	Sequence D1J0395	<u>Batch</u> DJ12206
Aroclor 1221	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
Aroclor 1232	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
Aroclor 1242	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
Aroclor 1248	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
Aroclor 1254	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
Aroclor 1260	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
Aroclor 1262	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
Aroclor 1268	ND (0.1)		8082A		1	10/25/21 17:04	D1J0395	DJ12206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		111 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		102 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		104 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0813

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
		,			- /					
Batch DJ12206 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0232		mg/kg wet	0.02500		93	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0214		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0229		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobinhenvl	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Decachlorobinhenvl [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0256		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0249		mg/kg wet	0.02500		<i>99</i>	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		91	40-140	4	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140	3	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		97	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140	3	30	
Surrogate: Decachlorobinhenvl	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogate: Decachlorobinhenvl [2C]	0.0224		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0241		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0235		mg/kg wet	0.02500		94	30-150			
			· -							


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0813

Notes and Definitions

U	J	Analyte included in the analysis, but not detected
N	ID	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
d	ry	Sample results reported on a dry weight basis
R	PD	Relative Percent Difference
Ν	1DL	Method Detection Limit
N	1RL	Method Reporting Limit
L	OD	Limit of Detection
L	,OQ	Limit of Quantitation
D)L	Detection Limit
I/	'V	Initial Volume
F	/V	Final Volume
ş		Subcontracted analysis; see attached report
1		Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2		Range result excludes concentrations of target analytes eluting in that range.
3		Range result excludes the concentration of the C9-C10 aromatic range.
А	vg	Results reported as a mathematical average.
N	IR	No Recovery
[(CALC]	Calculated Analyte
S	UB	Subcontracted analysis; see attached report
R	L	Reporting Limit
Е	DL	Estimated Detection Limit
Ν	1F	Membrane Filtration
Ν	1PN	Most Probable Number
Т	NTC	Too numerous to Count
Ċ	FU	Colony Forming Units
C	10	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0813

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

> Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Cone	co Engineers, S	cientists & Sur	v - KPB/TB	_	ESS	Project ID:	21J 0813	
Shipped/Delivered	l Via:	ESS Courier			Date Project	Received:	10/22/2021	
			· .	-	Days f	or Project:	5 Day	
1. Air bill manifest Air No.:	present? NA	[No]	6. Does COC	match bottles?		Yes
2. Were custody se	eals present?	[No]	7. Is COC con	nplete and corre	ect?	Yes
3. Is radiation coun	nt <100 CPM?	Γ	Yes	1	8. Were samp	les received int	act?	Yes
4. Is a Cooler Pres	ent?	[Yes]	9. Were labs	informed abou	t <u>short holds & rushes</u> ?	Yes / No NA
Temp:2.1	l lced with	: <u>lce</u>		_	10. Were any	analyses recei	ved outside of hold time?	Yes / No
5. Was COC signe	d and dated by d	lient?	Yes]	· · · · · · · · · · · · · · · · · · ·			
11. Any Subcontrac ESS Sample Analy T	ting needed? IDs: ysis: [AT:	Yes ,	No		12. Were VOA a. Air bubbles b. Does meth	s received? in aqueous VC anol cover soil o	As? completely?	Yes / No Yes / No Yes / No / NA
 13. Are the sample: a. If metals preserv b. Low Level VOA Sample Receiving A 	s properly prese ed upon receipt: vials frozen:	rved?	Yes)/ No Date: Date:		Time: Time:		By: By:	_
14. Was there a need a. Was there a need Who was contacted?	ed to contact Pro d to contact the ?	oject Manager client?	Date:	Yes / No Yes / No	Time:		Ву:	
Sample Contair	ner Proper	Air Bubbles	Sufficient	Containe		Preservativ	e Record pH (Cya	nide and 608
1 22148	1 Yes	Present N/A	Yes	4 oz.	Jar	NP	Pesticio	les)
2nd Review Were all containers Are barcode labels of Are all Flashpoint stic Are all Hex Chrome s Are all QC stickers att Are VOA stickers atta Completed By: Reviewed	scanned into s n correct contair ckers attached/c stickers attached tached? ached if bubbles	torage/lab? lers? ontainer ID # c ? noted?	ircled?	Initials∳ { Y Y Date & Time:	Yes No Yes No / NA es / No / NA es / No / NA es / No / NA	22/22-21_	1628	
<u> ру.</u>		INY/le1	Jaits	Date & Time: _	1012	20	1630	_

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		Phone: 4	401-461-7181	Regulatory State:	: RI	Criteria	: <0.5 mg/kg		ΩL	imit Cl	hecker		State	Forms		EQuIS	j.		
		Fax: 40	01-461-4486		Is this proj	ject for any of th	e following?:		ΘE	xcel			Hard	Сору		Envirc	Data		
LABORAL	<u>O EX</u>	<u>www.essla</u>	aboratory.com	□CT RCP	□ МА МСР	□RGP	Permit	□401 WQ	D C	LP-Lik	e Pack	age □	Other	(Specif	ỳ) →				
	CLIENT IN	FORMAT	FION		PROJE	CT INFORM	AATION				R	EQU	ESTEI) ANA	LYSI	ES			
Clien	t: Coneco Engi	neers & Scie	ntists, Inc	Project Name:	Pawtucket Cor	ntrol House		Client						•					
Addres	s: 4 First Street			Project Location:	6 Thorton Stre	æt, Pawtucket, F	ય	acknowledges											ota
	Bridgewater,	Massachuse	tts 02324	Project Number:	5675.F.101.4			that sampling									Ì		-Z
Phone	e: 508-697-319	1		Project Manager:	Katie Loftus			with all FPA /	2										mb.
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ESS Lab II) Collection Date	Collection Time	Sample Type	Sample Matrix		Sa	mple ID		CB										
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Cont	ainer Volume:	1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	-500 mL 6-1L	7-VOA 8-2.02	9-4 oz 10-8 o	z 11-Other*	AG 0					++		┟──┼──	+		1
Prese	rvation Code:	1-Non Pre	eserved 2-HCl 3-H2SC	04 4-HNO3 5-NaOH 6	5-Methanol 7-Na2S	S2O3 8-ZnAce, Na	OH 9-NH4Cl 10-E	DIH2O 11-Other*						++-			++		L
	Sampled by :	DCK					Chain	needs to be fill	ed o	ut ne	atly a	ind co	mple	tely f	or on	time	deli	verv.	<u></u>
Lal	boratory Use C	Dnly	Comments:	* Please specify "C	Other" preserv	ative and conta	iners types in t	his space	A 11		• ••							v	
Caralan Tarr	·	2.1	*National Grid Pro	oject* Pre	eservation code	11 = ice	Homogenize sa	amples	ESS	Labo	es suo ratorv	's navr	nent te	oject u rms an	d	Dissol	ved Fil	ltration	
	iperature (°C):	- Co	Use manual soxhle Please provide ful	et extraction per EPA	Method 3540	Т	SCA Requireme	nts		Luber	con	dition	s.		" —	·	[ม	Filter	
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Page 10 of 10



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 19J0022

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:42 pm, Oct 09, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0022

SAMPLE RECEIPT

The following samples were received on October 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 19J0022-01 19J0022-02 19J0022-03 Sample Name CW-03-01 CW-03-02 CW-03-03 **Matrix** Solid Solid Solid **Analysis** 8082A 8082A 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0022

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0022

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-03-01 Date Sampled: 09/27/19 08:30 Percent Solids: 100 Initial Volume: 5.37 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0022 ESS Laboratory Sample ID: 19J0022-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
Aroclor 1232	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
Aroclor 1242	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
Aroclor 1248	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
Aroclor 1254	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
Aroclor 1260 [2C]	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
Aroclor 1262	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
Aroclor 1268	ND (0.09)		8082A		1	10/07/19 22:56	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-03-02 Date Sampled: 09/27/19 08:35 Percent Solids: 100 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0022 ESS Laboratory Sample ID: 19J0022-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 23:15	Sequence C9J0157	<u>Batch</u> CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
Aroclor 1260	0.6 (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 23:15	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-03-03 Date Sampled: 09/27/19 08:40 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0022 ESS Laboratory Sample ID: 19J0022-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 16:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 23:34	Sequence C9J0157	Batch CJ90208
Aroclor 1221	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
Aroclor 1232	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
Aroclor 1242	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
Aroclor 1248	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
Aroclor 1254	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
Aroclor 1260	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
Aroclor 1262	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
Aroclor 1268	ND (0.1)		8082A		1	10/07/19 23:34	C9J0157	CJ90208
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		60 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0022

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CJ90208 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Arocior 1260	ND	0.02	mg/kg wet							
Arocior 1260 [2C]	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1208		0.02	mg/kg wet							
	NU	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0258		mg/kg wet	0.02500		103	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		105	40-140			
Aroclor 1016 [2C]	0.6	0.02	mg/kg wet	0.5000		125	40-140			
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		119	40-140			
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		122	40-140			
	n n758		ma/ka wet	0 02500		103	30-150			
Surrogate: Decachiorobiphenyl	0.0250		ma/ka wet	0.02500		110	30-150			
Surrogate: Decachiorobiphenyl [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro m vylono [20]	0.0261		mg/ka wet	0.02500		105	30-150			
			5,							
Aroclor 1016	0.5	0.02	ma/ka wet	0 5000		101	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	ma/ka wet	0.5000		121	40-140	т 3	30	
Aroclor 1260	0.0	0.02	ma/ka wet	0.5000		116	40-140	3	30	
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		119	40-140	2	30	
	0.0	0.02	ing/kg wet	0.5000		,	10 110	£	50	
Surrogate: Decachlorobiphenyl	0.0261		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0274		mg/kg wet	0.02500		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0258		mg/kg wet	0.02500		103	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0022

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0022

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID:	_
Shipped/Delivered Via: ESS Courier	Project Due Date: 10/8/2019 Days for Project:5 Day	_
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?8. Were samples received intact?	Yes
3. Is radiation count <100 CPM?	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No (NA)
4. Is a Cooler Present? res Temp: 0.4 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: 	Time: By: Time: By:	_
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes No Yes Time: By:	
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cya Pestici	nide and 608 des)
01 393726 Yes NA Yes 02 393725 Yes NA Yes	4 oz. Jar - Unpres NP 4 oz. Jar - Unpres NP	
03 393724 Yes NA Yes	4 oz. Jar - Unpres NP	
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Initials Yes / No/ NA Yes / No/ NA Yes / No/ NA Yes / No/ NA Yes / No NA	
Completed By: Reviewed By: Delivered By:	Date & Time: $10/1/15$ 1537 Date & Time: $10/1/19$ 3046 10/1/19 2046	

ESS L	aboratory	/		C	HAIN OF CUSTO	DY	ESS La	ESS Lab # 1950027							
Division o	f Thielsch Engi	ineering, Inc.		Turn Time	5-Day Rush		Reporti	ng			PCBs <).5 mg/kg			
185 Franc	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island		Limits	\$ 	Litter Charles				<u> </u>		
Tel. (401)	461-7181 Fa	x (401) 461-44	86			NING?: RGP	Elector	liC ∟ Nes ⊡) Limit Checke } Other (Pleas	r eSpecifir		Standard Exc	el PDF		
www.essia	Cor	nnany Name		Project #	Project Na	Denvera									
	Coneco Eng	jineers and Sci	ientists	5675.F	Pawtucket 1 Control House, 6 Tho	mton Ave, Pawtucket RI									
	Col	ntact Person			Address		<u>.</u>								
	City	Mark Zoller	S	l	Zin Code	aly –									
	Bridgewate	۲		ЛА	02324	5675.F	_ ₹								
	Felephone Nu	mber	FAX	lumber	Email Addr	ess Anonco com		8082							
ESS Lab	Collection	Collection	· · · ·	<u> </u>	Difnortia	<u> </u>	8								
ID	Date	Time	Sample Type	Sample Matrix	Sam		DC D								
01	9/27/2019	8:30 a.m.	Grab	Solid	cw		x								
				0.11	0.0				┼━╌┼──╏			1	+-+-		
02	9/27/2019	8:35 a.m.	Grab	Grab Solid CW-03-02									┢╌╽╴	++	
03	9/27/2019	8:40 a.m.	Grab	Solid	Solid CW-03-03										
				· · · · · ·	······································										
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							•••								
	ntainer Tyne:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle (Cubitainer G - Glass O-O	ther P-Polv S-Ste	rile V-Vial	AG					+-+-	+	
Conta	ainer Volume:	1-100 ml 2	-2.5 gal 3-250 ml	4-300 ml 5-500	ml 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9				<u> </u>		++	
Prese	rvation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaC	0H 9-NH4CI 10-DI H2C) 11-Other*	11							
					Numbe	r of Containers per	Sample:	1							
		Laborator	y Use Only		Sampled by : DJD/MJN	Λ	-	<u>II</u>		1	I I	I	<u> </u>		,
Coole	r Present:				Comments:	Please sp	ecify "Othe	r" pre	servative a	nd contai	ners types	in this spa	ice		
Seal	s Intact:	A.A.			National G	rid Project. Use Man	ual Soxhlet	Extrac	tion per EP	A Method	3540. Rep	ort Drv Wei	oht. 11= (CE.	
Cooler T	emperature:		°C 100 Leno	10.4	Homogeni	ize Sample TSCA Re	auirements	Provi	ie Full Data	Package		,	, ,	,	
Re	linguished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	: (Signature	, Date	& Time)	T C	Received B	y: (Signatur	e, Date &	Time))
Da	J.	9	120/19 1:20	X1 11/14/2:36 Zo X/2 10/1/19 16:37 10/1/9 18:37											
Re	Relinquished by: (Signature, Date & Time) Received By:				(Signature, Date & Time)	e) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date & Time)									
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20A0098

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:54 pm, Jan 14, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0098

SAMPLE RECEIPT

The following samples were received on January 07, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 20A0098-01 20A0098-02 20A0098-03 Sample Name CW-04-01 CW-04-02 CW-04-03 **Matrix** Solid Solid Solid **Analysis** 8082A 8082A 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0098

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0098

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-04-01 Date Sampled: 01/03/20 11:00 Percent Solids: 97 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0098 ESS Laboratory Sample ID: 20A0098-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 19:25	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
Aroclor 1260 [2C]	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 19:25	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		61 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-04-02 Date Sampled: 01/03/20 11:10 Percent Solids: 96 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0098 ESS Laboratory Sample ID: 20A0098-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 19:45	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
Aroclor 1260	0.2 (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 19:45	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>68 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>96 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-04-03 Date Sampled: 01/03/20 11:20 Percent Solids: 95 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0098 ESS Laboratory Sample ID: 20A0098-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 20:04	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
Aroclor 1260 [2C]	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 20:04	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>65 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0098

Quality Control Data

partaryne MRL Units Level Result MRL Units Result MRL Qualifi 8082A Polychlorinated Biphenyls (PCB) Bank		. .			Spike	Source	0/255	%REC	F F F F F F F F F F	RPD	c
Bink N0 0.02 mg/ng wet set	Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Bach CA0825 - 3540C Moder 125 MD 0.02 mg/lag wet Arcdor 1222 MD 0.02 mg/lag wet - - Arcdor 1222 MD 0.02 mg/lag wet - - - Arcdor 1222 MD 0.02 mg/lag wet - - - - Arcdor 1224 MD 0.02 mg/lag wet - - - - Arcdor 1242 MD 0.02 mg/lag wet - - - - Arcdor 1242 MD 0.02 mg/lag wet - - - - Arcdor 1242 MD 0.02 mg/lag wet - - - - Arcdor 1242 MD 0.02 mg/lag wet - - - -<			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Bank ND 0.02 mg/kg wet Ancdari 1015 [C] ND 0.02 mg/kg wet Ancdar 1025 [C] ND 0.02 mg/kg wet Ancdar 1221 [Z] ND 0.02 mg/kg wet Ancdar 1222 [Z] ND 0.02 mg/kg wet Ancdar 1222 ND 0.02 mg/kg wet Ancdar 1222 ND 0.02 mg/kg wet Ancdar 1224 ND 0.02 mg/kg wet Ancdar 124 ND 0.02 mg/kg wet Ancdar 128 ND 0.02 mg/kg wet Ancdar 1262 ND 0.02 mg/kg wet Ancdar 1262 ND<	Batch CA00826 - 3540C										
Ancider 1016 ND 0.02 mg/kg wet Ancider 1016 ND 0.02 mg/kg wet Ancider 121 ND 0.02 mg/kg wet Ancider 121 ND 0.02 mg/kg wet Ancider 1221 ND 0.02 mg/kg wet Ancider 1221 ND 0.02 mg/kg wet Ancider 1224 ND 0.02 mg/kg wet Ancider 1242 ND 0.02 mg/kg wet Ancider 1248 ND 0.02 mg/kg wet Ancider 1248 ND 0.02 mg/kg wet Ancider 1248 ND 0.02 mg/kg wet Ancider 1249 ND 0.02 mg/kg wet Ancider 1240 ND 0.02 mg/kg wet Ancider 1240 ND 0.02 mg/kg wet Ancider 1242 ND 0.02 mg/kg wet Ancider 1240 ND 0.02 mg/kg wet Ancider 1241 ND 0.02 mg/kg wet Ancider 1242	Blank										
Andori 1016 [2C]ND0.02mg/lay wetIIIAndori 121ND0.02mg/lay wetIII	Aroclor 1016	ND	0.02	mg/kg wet							
Areder 1221ND0.02mg/kg wetAreder 1222ND0.02mg/kg wetAreder 1232ND0.02mg/kg wetAreder 1232ND0.02mg/kg wetAreder 1232ND0.02mg/kg wetAreder 1242ND0.02mg/kg wetAreder 1242ND0.02mg/kg wetAreder 1248ND0.02mg/kg wetAreder 1248ND0.02mg/kg wetAreder 1248ND0.02mg/kg wetAreder 1248ND0.02mg/kg wetAreder 1248ND0.02mg/kg wetAreder 1254ND0.02mg/kg wetAreder 1254ND0.02mg/kg wetAreder 1254ND0.02mg/kg wetAreder 1252ND0.02mg/kg wetAreder 1252ND0.05 </td <td>Aroclor 1016 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Andor 122 [2] Andor 1232ND0.02mg/kg wetInternational Migh wetInternational Migh wetAndor 1232ND0.02mg/kg wetInternational Migh wetInternational Migh wetInternational Migh wetInternational Migh wetAndor 1242 Andor 1242 Call Andor 1242 Call Andor 1242 Call Andor 1248 Call Call CallND0.20mg/kg wetInternational Migh wetAndor 1248 Call <b< td=""><td>Aroclor 1221</td><td>ND</td><td>0.02</td><td>mg/kg wet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></b<>	Aroclor 1221	ND	0.02	mg/kg wet							
Aredor 1232ND0.02mg/kg weiAredor 1242 [2C]ND0.2mg/kg weiAredor 1242 [2C]ND0.2mg/kg weiAredor 1242 [2C]ND0.2mg/kg weiAredor 1243 [2C]ND0.2mg/kg weiAredor 1244 [2C]ND0.2mg/kg weiAredor 1245 [2C]ND0.2mg/kg weiAredor 1245 [2C]ND0.2mg/kg weiAredor 1245 [2C]ND0.2mg/kg weiAredor 1264 [2C]ND0.2mg/kg weiAredor 1265 [2C]ND0.2mg/kg weiAredor 1264 [2C]ND0.2mg/kg weiAredor 1264 [2C]ND0.2mg/kg weiAredor 1265 [2C]ND0.2mg/kg weiAredor 1266 [2C]ND0.2mg/kg weiAredor 1268 [2C]ND0.2mg/kg weiAredor 1268 [2C]ND0.2mg/kg weiAredor 1268 [2C]0.2mg/kg wei0.2500Bargenter iteracherologichem/0.4162mg/kg weiAredor 1265 [2C]0.4169mg/kg weiAredor 1265 [2C]0.4169mg/kg weiAredor 1265 [2C]ND0.52mg/kg weiAredor 1265 [2C]ND0.55mg/kg weiAredor 126	Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Areder 1232 [2C]ND0.02mg/kg wetAreder 1242ND0.02mg/kg wetAreder 1242ND0.02mg/kg wetAreder 1248 [2C]ND0.02mg/kg wetAreder 1248 [2C]ND0.02mg/kg wetAreder 1248 [2C]ND0.02mg/kg wetAreder 1254 [2C]ND0.02mg/kg wetAreder 1254 [2C]ND0.02mg/kg wetAreder 1256 [2C]0.0167mg/kg wet0.02500Samgate: Tetrachtoro-my/ene0.0167mg/kg wetAreder 1257 [2C]0.0167mg/kg wetAreder 1258 [2C]ND0.05Areder 1259 [2C]ND0.05Areder 1250 [2C]ND0.05Areder 1250 [2C]ND0.05Areder 1252 [2C]ND0.05Areder 1252 [2C]ND0.05Areder 1252 [2C] <td>Aroclor 1232</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1232	ND	0.02	mg/kg wet							
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Arador 1248ND0.02mg/kg wetArador 1248ND0.20mg/kg wetArador 1246ND0.20mg/kg wetArador 1246ND0.20mg/kg wetArador 1240ND0.20mg/kg wetArador 1240ND0.20mg/kg wetArador 1240ND0.20mg/kg wetArador 1260ND0.20mg/kg wetArador 1260ND0.20mg/kg wetArador 1262ND0.20mg/kg wetSarragate: Decachlonobjehenyl0.0167mg/kg wet0.22500Sarragate: Tetachloro-m-sylene0.0167mg/kg wetArador 12110.02mg/kg wetArador 1222ND0.55mg/kg wetArador 1221ND0.55mg/kg wetArador 1221ND0.55mg/kg wetArador 1222ND0.55mg/kg wetArador 1222ND0.55mg/kg wetArador 1221ND0.55mg/kg wetArador 1222ND0.55mg/kg wetArador 1242ND0.55mg/kg wetArador 1242ND0.55mg/kg wetArador 1242 <t< td=""><td>Aroclor 1242 [2C]</td><td>ND</td><td>0.02</td><td>mg/kg wet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
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Aradar 1254 ND 0.02 mg/kg wet Aradar 1264 ND 0.02 mg/kg wet Aradar 1260 ND 0.02 mg/kg wet Aradar 1260 ND 0.02 mg/kg wet Aradar 1262 ND 0.02 mg/kg wet Strongate: Decarchiorobiphenyl 0.0167 mg/kg wet 0.02500 65 30-150 Strongate: Tetrachioro-m-sylene [2C] 0.0167 mg/kg wet 0.02500 83 30-150 Strongate: Tetrachioro-m-sylene [2C] 0.0167 mg/kg wet 0.02500 83 30-150 Aradar 1215 [2C] ND 0.05 mg/kg wet	Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
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Arador 1260 ND 0.02 mg/kg wet Arador 1260 [CC] ND 0.02 mg/kg wet Arador 1262 ND 0.02 mg/kg wet Arador 1262 [CC] ND 0.02 mg/kg wet Arador 1263 [CC] ND 0.02 mg/kg wet Arador 1268 [CC] ND 0.02 mg/kg wet Arador 1268 [CC] ND 0.02 mg/kg wet 0.02500 67 30-150 Surrogate: Decachiorobiphenyl [CC] 0.0167 mg/kg wet 0.02500 67 30-150 Surrogate: Tetrachioro-m-wylene [CC] 0.0167 mg/kg wet 0.02500 67 30-150 Surrogate: Tetrachioro-m-wylene [CC] 0.0167 mg/kg wet 0.02500 78 30-150 Surrogate: Tetrachioro-m-wylene [CC] 0.0167 mg/kg wet 0.02500 78 30-150 Surrogate: Tetrachioro-m-wylene [CC] 0.0167 mg/kg wet 0.02500 78 30-150 Arodor 1016 [CC] ND 0.05 mg/kg wet	Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Arador 1260 [2C]ND0.02mg/kg wetArador 1262 [2C]ND0.02mg/kg wetArador 1268 [AC]ND0.02mg/kg wetArador 1268 [AC]ND0.02mg/kg wetArador 1268 [AC]ND0.02mg/kg wetArador 1268 [AC]ND0.02mg/kg wetSurraget: Decachlarabiphenyl0.0167mg/kg wet0.025006730-150Surraget: Tetrachlarabiphenyl [2C]0.0167mg/kg wet0.025007830-150Surraget: Tetrachlarabiphenyl [2C]0.0269mg/kg wet0.025008330-150Surraget: Tetrachlarabiphenyl [2C]0.0279mg/kg wet0.025008330-150Surraget: Tetrachlarabiphenyl [2C]0.0209mg/kg wet0.025008330-150Surraget: Tetrachlarabiphenyl [2C]0.0209mg/kg wet0.025008330-150Surraget: Tetrachlarabiphenyl [2C]0.0209mg/kg wet1.025008330-150Surraget: Tetrachlarabiphenyl [2C]ND0.05mg/kg wet1.025008330-150Surraget: Tetrachlarabiphenyl [2C]ND0.05mg/kg wet1.025008330-150Surraget: Tetrachlarabiphenyl [2C]ND0.05mg/kg wet1.025008330-150Surraget: Tetrachlarabiphenyl [2C]ND0.05mg/kg wet1.025001.025001.02500Arodor 1210ND0.05mg/kg wet1.025001.025001.025001.025001.02500 <td>Aroclor 1260</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1260	ND	0.02	mg/kg wet							
Arador 1262 ND 0.02 mg/kg wet Arador 1262 [2[] ND 0.02 mg/kg wet Arador 1268 [3C] ND 0.02 mg/kg wet Arador 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decachlorobiphenyl 0.0167 mg/kg wet 0.02500 65 30-150 Surrogate: Tetrachloro-m-xylene 0.0167 mg/kg wet 0.02500 67 30-150 Surrogate: Tetrachloro-m-xylene 0.020 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.020 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.020 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.020 mg/kg wet 0.0250 83 30-150 Surrogate: Tetrachloro-m-xylene 0.020 mg/kg wet 0.0250 83 30-150 Arodor 1016 ND 0.05 mg/kg wet 5 5 5 5 Arodor 1221 ND 0.05 mg/kg wet 5 5 5 5 <t< td=""><td>Aroclor 1260 [2C]</td><td>ND</td><td>0.02</td><td>mg/kg wet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Arodor 1262 [2C] ND 0.02 mg/kg wet Arodor 1268 ND 0.02 mg/kg wet Arodor 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decachlorobiphenyl 0.0167 mg/kg wet 0.02500 65 30-150 Surrogate: Tetrachloro-m-xylene 0.0167 mg/kg wet 0.02500 67 30-150 Surrogate: Tetrachloro-m-xylene 0.0196 mg/kg wet 0.02500 67 30-150 Surrogate: Tetrachloro-m-xylene 0.0196 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.0196 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.0196 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.019 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene ND 0.05 mg/kg wet 10.05 10.05 Arodor 121 ND 0.05 mg/kg wet 10.05 10.05 10.05 Arodor 1221 ND 0.05 mg/kg wet 11.05	Aroclor 1262	ND	0.02	mg/kg wet							
Arodor 1268 ND 0.02 mg/kg wet Arodor 1268 [2C] ND 0.02 mg/kg wet 0.02500 67 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0167 mg/kg wet 0.02500 67 30-150 Surogate: Decachlorobiphenyl [2C] 0.0167 mg/kg wet 0.02500 78 30-150 Surogate: Tetrachloro-m-wylene [2C] 0.0200 78 30-150 30-150 Bank mg/kg wet 0.02500 83 30-150 Arodor 1016 ND 0.05 mg/kg wet 30-150 Arodor 1016 [2C] ND 0.05 mg/kg wet 30-150 Arodor 1221 ND 0.05 mg/kg wet	Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Arodor 1268 [2C] ND 0.02 mg/kg wet 0.2500 65 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0162 mg/kg wet 0.02500 67 30-150 Surrogate: Tetrachloro-m-xylene 0.0196 mg/kg wet 0.02500 78 30-150 Surrogate: Tetrachloro-m-xylene 0.0209 mg/kg wet 0.02500 83 30-150 Blank ND 0.05 mg/kg wet 0.02500 83 30-150 Arodor 1016 ND 0.05 mg/kg wet 0.02500 83 30-150 Arodor 1016 ND 0.05 mg/kg wet 0.02500 83 30-150 Arodor 1016 [2C] ND 0.05 mg/kg wet 0.05 10.05 10.05 Arodor 1221 [2C] ND 0.05 mg/kg wet 10.05 10.05 10.05 Arodor 1232 [2C] ND 0.05 mg/kg wet 10.05 10.05 10.05 Arodor 1242 [2C] ND 0.05 mg/kg wet 10.05 10.05	Aroclor 1268	ND	0.02	mg/kg wet							
Surragate: Decachlorobiphenyl 0.0162 mg/kg wet 0.02500 65 30-150 Surragate: Decachlorobiphenyl [2C] 0.0167 mg/kg wet 0.02500 67 30-150 Surragate: Tetachloro-m-xylene 0.0166 mg/kg wet 0.02500 78 30-150 Surragate: Tetachloro-m-xylene 0.0200 83 30-150 Surragate: Tetachloro-m-xylene 0.0167 mg/kg wet 0.02500 83 30-150 Surragate: Tetachloro-m-xylene 0.0167 mg/kg wet 0.02500 83 30-150 Blank ND 0.05 mg/kg wet 0.02500 83 30-150 Arodor 1016 ND 0.05 mg/kg wet Arodor 1221 ND 0.05 mg/kg wet Arodor 1232 ND 0.05 mg/kg wet Arodor 1242 ND 0.05 mg/kg wet <td>Aroclor 1268 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl 0.0162 mg/kg wet 0.02500 65 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0167 mg/kg wet 0.02500 67 30-150 Surrogate: Tetrachloro-m-xylene 0.0196 mg/kg wet 0.02500 78 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0209 mg/kg wet 0.02500 83 30-150 Bank ND 0.05 mg/kg wet 0.02500 83 30-150 Arodor 1016 [2C] ND 0.05 mg/kg wet 0.02500 83 30-150 Arodor 1221 [2C] ND 0.05 mg/kg wet -											
Surrogate:Decachlorobiphenyl [2C]0.0167mg/kg wet0.025006730-150Surrogate:Tetrachloro-m-xylene0.0196mg/kg wet0.025008330-150Surrogate:Tetrachloro-m-xylene [2C]0.0209mg/kg wet0.025008330-150BlankArodor 1016ND0.05mg/kg wetArodor 1016 [2C]ND0.05mg/kg wetArodor 1221 [2C]ND0.05mg/kg wetArodor 1232 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1246 [2C]ND0.05mg/kg wetArodor 1246 [2C]ND0.05mg/kg wet </td <td>Surrogate: Decachlorobiphenyl</td> <td>0.0162</td> <td></td> <td>mg/kg wet</td> <td>0.02500</td> <td></td> <td>65</td> <td>30-150</td> <td></td> <td></td> <td></td>	Surrogate: Decachlorobiphenyl	0.0162		mg/kg wet	0.02500		65	30-150			
Surrogate: Tetrachloro-m-xylene [2C]0.0196mg/kg wet0.025007830-150Surrogate: Tetrachloro-m-xylene [2C]0.0209mg/kg wet0.02500k330-150BlankArodor 1016ND0.05mg/kg wetArodor 1016 [2C]ND0.05mg/kg wetArodor 1221 [2C]ND0.05mg/kg wetArodor 1232 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1246 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1246 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1246 [2C]ND0.05mg/kg wetArodor 1246 [2C]ND0.05mg/kg wetArodor 1254 [AC]ND0.05mg/kg wetArodor 1254 [AC]ND0.05mg/kg wet </td <td>Surrogate: Decachlorobiphenyl [2C]</td> <td>0.0167</td> <td></td> <td>mg/kg wet</td> <td>0.02500</td> <td></td> <td>67</td> <td>30-150</td> <td></td> <td></td> <td></td>	Surrogate: Decachlorobiphenyl [2C]	0.0167		mg/kg wet	0.02500		67	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0299 mg/kg wet 0.02500 83 30-150 Blank Arodor 1016 ND 0.05 mg/kg wet .	Surrogate: Tetrachloro-m-xylene	0.0196		mg/kg wet	0.02500		78	30-150			
BlankArodor 1016ND0.05mg/kg wetArodor 1016 [2C]ND0.05mg/kg wetArodor 1221 [2C]ND0.05mg/kg wetArodor 1232 [2C]ND0.05mg/kg wetArodor 1232 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1254 [2C]ND0.05mg/kg wet	Surrogate: Tetrachloro-m-xylene [2C]	0.0209		mg/kg wet	0.02500		83	30-150			
Arodor 1016ND0.05mg/kg wetArodor 1016 [2C]ND0.05mg/kg wetArodor 1221 [2C]ND0.05mg/kg wetArodor 1232 [2C]ND0.05mg/kg wetArodor 1232 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1254 [2C]ND0.05mg/kg wet	Blank										
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Arodor 1221ND0.05mg/kg wetArodor 1221 [2C]ND0.05mg/kg wetArodor 1232 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1242 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1248 [2C]ND0.05mg/kg wetArodor 1254 [2C]ND0.05mg/kg wetArodor 1254 [2C]ND0.05mg/kg wetArodor 1254 [2C]ND0.05mg/kg wetArodor 1260ND0.05mg/kg wet	Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
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Aroclor 1232ND0.05mg/kg wetAroclor 1232 [2C]ND0.05mg/kg wetAroclor 1242ND0.05mg/kg wetAroclor 1242 [2C]ND0.05mg/kg wetAroclor 1248ND0.05mg/kg wetAroclor 1248 [2C]ND0.05mg/kg wetAroclor 1254 [2C]ND0.05mg/kg wetAroclor 1254 [2C]ND0.05mg/kg wetAroclor 1254 [2C]ND0.05mg/kg wetAroclor 1260ND0.05mg/kg wet	Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
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Aroclor 1242 ND 0.05 mg/kg wet Aroclor 1242 [2C] ND 0.05 mg/kg wet Aroclor 1248 ND 0.05 mg/kg wet Aroclor 1248 [2C] ND 0.05 mg/kg wet Aroclor 1248 [2C] ND 0.05 mg/kg wet Aroclor 1254 [2C] ND 0.05 mg/kg wet Aroclor 1254 [2C] ND 0.05 mg/kg wet Aroclor 1260 ND 0.05 mg/kg wet	Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242 [2C] ND 0.05 mg/kg wet Aroclor 1248 ND 0.05 mg/kg wet Aroclor 1248 [2C] ND 0.05 mg/kg wet Aroclor 1254 ND 0.05 mg/kg wet Aroclor 1254 [2C] ND 0.05 mg/kg wet Aroclor 1260 ND 0.05 mg/kg wet	Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1248 ND 0.05 mg/kg wet Aroclor 1248 [2C] ND 0.05 mg/kg wet Aroclor 1254 ND 0.05 mg/kg wet Aroclor 1254 [2C] ND 0.05 mg/kg wet Aroclor 1260 ND 0.05 mg/kg wet	Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248 [2C] ND 0.05 mg/kg wet Aroclor 1254 ND 0.05 mg/kg wet Aroclor 1254 [2C] ND 0.05 mg/kg wet Aroclor 1260 ND 0.05 mg/kg wet	Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1254 ND 0.05 mg/kg wet Aroclor 1254 [2C] ND 0.05 mg/kg wet Aroclor 1260 ND 0.05 mg/kg wet	Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254 [2C] ND 0.05 mg/kg wet Aroclor 1260 ND 0.05 mg/kg wet	Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1260 ND 0.05 mg/kg wet	Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
	Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C] ND 0.05 mg/kg wet	Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262 ND 0.05 mg/kg wet	Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C] ND 0.05 mg/kg wet	Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268 ND 0.05 mg/kg wet	Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C] ND 0.05 mg/kg wet	Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl 0.0161 mg/kg wet 0.02500 65 30-150	Surrogate: Decachlorobiphenyl	0.0161		mg/kg wet	0.02500		65	30-150			
Surrogate: Decachlorobiphenyl [2C] 0.0172 mg/kg wet 0.02500 69 30-150	Surrogate: Decachlorobiphenyl [2C]	0.0172		mg/kg wet	0.02500		69	30-150			
185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 <u>http://www.ESSLaboratory.com</u>	185 Frances Aven	ue, Cranston, RI 029	10-2211 Dependabili	Tel: 401-461-71	81 Fa	x: 401-461- Service	-4486 e	http://www	.ESSLabor	atory.com	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0098

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Polv	chlorinated E	Biphenyls	(PCB)					
		- 1		. ,-	. /					
Batch CA00826 - 3540C										
	0.0105			0.03500		70	20.150			
Surrogate: Tetrachloro-m-xylene	0.0195		mg/kg wet	0.02500		/8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0223		mg/kg wet	0.02500		69	30-150			
		0.05		0 5000			10.1.10			
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		98	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		85	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		90	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		85	40-140			
Surrogate' Decachlorobinhenvl	0.0197		mg/kg wet	0.02500		79	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0196		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		90	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		94	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		88	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Surrogate: Decachlorobiphenyl	0.0186		mg/kg wet	0.02500		75	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0186		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0230		mg/kg wet	0.02500		92	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		96	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	1	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		90	40-140	0.7	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	0.8	30	
Cumanta Danaklanakinkanul	0.0190		ma/ka wet	0.02500		76	30-150			
Surrogate: Decachiorobiphenyi	0.0193		mg/kg wet	0.02500		77	30-150			
Surrogate: DecachioroDiphenyi [2C]	0.0210		ma/ka wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0224		mg/kg wet	0.02500		89	30-150			
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		98	40-140	4	30	
Aroclor 1016 [2C]	0.4	0.05	ma/ka wet	0.5000		89	40-140	2	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140	1	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		88	40-140	2	30	
			J. J			-	-			
Surrogate: Decachlorobiphenyl	0.0190		mg/kg wet	0.02500		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0188		mg/kg wet	0.02500		75	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0098

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/ V E/X/	Final Volume
Γ/ V	
8 1	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes the concentration of the C0 C10 aromatic range.
3 Ανσ	Range result excludes the concentration of the C9-C10 aromatic range.
NR	Results reported as a mathematical average.
	Calculated Analyte
	Subcontracted analysic: see attached report
BI	Reporting Limit
	Estimated Datastion Limit
EDL	Estimated Detection Limit
	Memorane Filtration
MPN	Most Probably Number
TNIC	Ioo numerous to Count
CFU	Colony Forming Units



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0098

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco En	gineers, Sci	entists & Surv	- KPB/TB		ESS Pr	oject ID:	204	0098		
Shipped/De	elivered Via:		ESS Courier			Project D	eceived: ue Date:	1/13	/2020		
						Days for	Project:	5	Day		
1. Air bill m Air No.;	anifest prese	nt? NA		No	(6. Does COC m	natch bottles?			l	Yes
2. Were cu	stody seals p	resent?		No		7. Is COC comp	plete and corre	ect?		l	Yes
3. Is radiati	on count <10	0 CPM?		Yes	; 	3. Were sample	es received inta	act?		1	Yes 7
4. Is a Cool	er Present?	lood with:	[Yes]	9. Were labs in	nformed abour	t <u>short holds</u>	t bold time	<u>.</u> ?	Yes / No NA
5. Was CO	C signed and	dated by cl	ient?	Yes	-	to. Wele ally a					
	Ū		-		-						
11. Any Sut ESS :	ocontracting i Sample IDs: Analysis: TAT:	needed?	Yes	No		12. Were VOAs a. Air bubbles i b. Does metha	s received? in aqueous VC nol cover soil ()As? completely?			Yes / No Yes / No Yes / No / NA
13. Are the a. If metals b. Low Lev	samples pro preserved u el VOA vials	perly preser pon receipt: frozen:	ved?	res/No Date: Date:		Time: Time:		By: By:			
Sample Red	ceiving Notes	3:									
14. Was th a. Was the Who was co	ere a need to re a need to ontacted?	contact Procontact the o	oject Manager Client?	? Date:	Yes No Yes	Time:		Ву:			
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Containe	г Туре	Preservati	ve	Record p	oH (Cyanid Pesticides	e and 608)
1	773	Yes	N/A	Yes	4 oz	Jar	NP				
2	774	Yes	N/A	Yes	4 oz	Jar	NP				
3	775	Yes	N/A	Yes	4 oz A	Jar	NP				
2nd Review Were all co Are barcode Are all Flash Are all Hex Are all QC s Are VOA sti	ntainers sc a labels on co hpoint sticker Chrome stick stickers attach ckers attach	anned into s prrect contai rs attached/o kers attached hed? ed if bubbles	storage/lab? ners? container ID # d? s noted?	circled?	Initials	(Tes / No es / No / NA res / No / NA res / No / NA res / No / NA)				
Completed By: Reviewed		DEL)		Date & Time:			<u>8106</u>			
By: Delivered By:	(P	ł			·(1720	2003 206	\$		

ESS L	aboratory	atory CHAIN OF CUSTODY					ESS Lab # 20 A:0098										
Division of Thielsch Engineering, Inc.			Turn Time 5-Day Rush				Reporting PCBs <0.5 mg/kg										
185 Frances Avenue, Cranston RI 02910 Regula			Regulatory State	Rhode Island		Limit	Limits										
Tel. (401)	461-7181 Fa:	x [`] (401) 461-448	36	Is thi	s project for any of the follow	ving?:	Elect	ា ផ្ រាit C	hecker		Standard Excel						
www.essla	aboratory.com			O CT RCP	O MA MCP O RGP		Deliver	olen er i	Please Sp	ecify_→)					PDF		
	Cor	npany Name		Project #	Project Nar	me											
	Coneco Eng	pineers and Sciences	entists	5075.F	Address	TROIT AVE, I' BWRUCKER IN	<u>.0</u>	<u>.</u>							- i		
	N	Aark Zoller			4 First Street		lys										
	City		Si	tate	Zip Code	PO #	Ana										
	Bridgewate	r mher	FAX	ViA Number	Email Addr	ess	-	8									
	508-697-31	91			jaevazalis, mzoller, kloftus, ddifra	ncesco@coneco.com		80									
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	iple ID		PCBs				_					
01	1/3/2020	11:00 a.m.	Grab	Solid	CW-	-04-01		×						_			
02	1/3/2020	11:10 a.m.	Grab	Solid	CW-		X										
03	1/3/2020	11:20 a.m.	Grab	Solid	CW-		X								_		
														_			
					· · · · · · · · · · · · · · · · · · ·												
													<u> </u>				+
													11				<u> </u>
Co	ntainer Type:	AC-Air Cassett	te AG-Amber Glas	ss B-BOD Bottle (C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	erile V-Vial	AG	_				┿┈┠╴			_	
Cont	ainer Volume:	1-100 mL 2-	-2.5 gal 3-250 ml	L 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other	9					┼┉┠━	_			- <u>├</u>
Prese	rvation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaO	0H 9-NH4CI 10-DI H20	0 11-Other*	11		<u> </u>				_			
					Numbe	r of Containers per	Sample:										
		Laboratory	/ Use Only		Sampled by : DJD												
Coole	r Present:			Comments: Please specify "Other" preservative and containers types in this space													
Sea	s Intact:		_	National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight, 11=ICE,													
Cooler Temperature: 7 5 C Homogenize Sample TSCA Requirements, Provide Full Data Package							onature	Date	8 Tin	1e)							
Ri Ri	sinquished by:	(Signature, Da	/	Received By:					<u></u>	<u>, </u>	1		لي رو . سار		, _un	-29	/
Dome	W W Mun	(Signature Da	20 <u>20</u>	Repeived By	Ke // 7 // 7 0 (Signature: Date & Time)	Relinguished By	/: (Signature	<u>) /</u> e, Date	& Time	<u>}</u>	い場	eceived	By (Si	gnature	 , Date	& Tin	<u>.</u> 1e)
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LINE NO.

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20F0219

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 5:58 pm, Jun 11, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0219

SAMPLE RECEIPT

The following samples were received on June 04, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Sample Name	Matrix	Analysis
CW-01-01	Solid	8082A
CW-01-02	Solid	8082A
CW-01-03	Solid	8082A
CW-01-04	Solid	8082A
CW-01-05	Solid	8082A
CW-01-06	Solid	8082A
CW-01-07	Solid	8082A
CW-01-08	Solid	8082A
CW-01-09	Solid	8082A
CW-03-04	Solid	8082A
CW-03-05	Solid	8082A
CW-04-04	Solid	8082A
CW-DUP-01	Solid	8082A
	Sample Name CW-01-01 CW-01-02 CW-01-03 CW-01-04 CW-01-05 CW-01-06 CW-01-07 CW-01-08 CW-01-09 CW-03-04 CW-03-05 CW-04-04 CW-DUP-01	Sample Name Matrix CW-01-01 Solid CW-01-02 Solid CW-01-03 Solid CW-01-04 Solid CW-01-05 Solid CW-01-06 Solid CW-01-07 Solid CW-01-08 Solid CW-01-09 Solid CW-03-04 Solid CW-03-05 Solid CW-04-04 Solid CW-DUP-01 Solid



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0219

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0219

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-01 Date Sampled: 05/28/20 11:00 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-01 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 16:13	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
Aroclor 1254 [2C]	0.5 (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
Aroclor 1260	0.3 (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 16:13	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>89 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-02 Date Sampled: 05/28/20 11:05 Percent Solids: 98 Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-02 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 16:33	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
Aroclor 1254 [2C]	0.5 (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
Aroclor 1260	0.2 (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 16:33	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-03 Date Sampled: 05/28/20 11:10 Percent Solids: 99 Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-03 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 16:53	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
Aroclor 1254 [2C]	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
Aroclor 1260	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 16:53	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-04 Date Sampled: 05/28/20 11:15 Percent Solids: 99 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-04 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 17:12	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
Aroclor 1254 [2C]	0.1 (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
Aroclor 1260	ND (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 17:12	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-05 Date Sampled: 05/28/20 11:20 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-05 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 17:32	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
Aroclor 1260	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 17:32	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>75 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-06 Date Sampled: 05/28/20 11:25 Percent Solids: 100 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-06 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 17:52	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
Aroclor 1260	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 17:52	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-07 Date Sampled: 05/28/20 11:30 Percent Solids: 99 Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-07 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 18:12	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
Aroclor 1260	0.1 (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 18:12	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		89 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>94 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		<i>79 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-08 Date Sampled: 05/28/20 11:35 Percent Solids: 99 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-08 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 18:31	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
Aroclor 1260	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 18:31	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-09 Date Sampled: 05/28/20 11:40 Percent Solids: 99 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-09 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 18:51	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
Aroclor 1260	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 18:51	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-03-04 Date Sampled: 05/28/20 11:45 Percent Solids: 100 Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-10 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 19:11	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
Aroclor 1260	0.5 (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 19:11	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>89 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>93 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-03-05 Date Sampled: 05/28/20 11:50 Percent Solids: 100 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-11 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 19:31	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
Aroclor 1260	0.6 (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 19:31	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>96 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>98 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-04-04 Date Sampled: 05/29/20 13:15 Percent Solids: 97 Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-12 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 19:51	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
Aroclor 1260 [2C]	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 19:51	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-DUP-01 Date Sampled: 05/29/20 00:00 Percent Solids: 96 Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0219 ESS Laboratory Sample ID: 20F0219-13 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 6/9/20 13:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 20:50	Sequence D0F0185	<u>Batch</u> DF00904
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
Aroclor 1254	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
Aroclor 1260	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 20:50	D0F0185	DF00904
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		97 %		30-150				
Surrogate: Tetrachloro-m-xylene		89 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0219

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DF00904 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0233		mg/kg wet	0.02500		93	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0219		mg/kg wet	0.02500		87	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Surragata, Dasachlarabiahanul	0.0242		ma/ka wet	0.02500		97	30-150			
Surrogate: Decachlorobiphenyl	0.0245		mg/kg wet	0.02500		98	30-150			
Surrogate: Detachioroblphenyi [2C]	0.0206		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-vylene	0.0225		mg/kg wet	0.02500		90	30-150			
Aroclor 1016	0.4	0.02	ma/ka wet	0 5000		87	40-140	9	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140	6	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		93	40-140	9	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140	6	30	
	г. т	0.02	ing/ng wet	0.5000			0-110	5	50	
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0229		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0191		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
Matrix Spike Source: 20F0219-12										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0219

Quality Control Data

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			8082A Poly	chlorinated E	Biphenyls	(PCB)					-
Batch DF00904 - 354	10C										
Aroclor 1016		1.8	0.1	mg/kg dry	2.062	ND	88	40-140			
Aroclor 1016 [2C]		1.9	0.1	mg/kg dry	2.062	ND	92	40-140			
Aroclor 1260		2.0	0.1	mg/kg dry	2.062	0.09	92	40-140			
Aroclor 1260 [2C]		1.9	0.1	mg/kg dry	2.062	0.09	86	40-140			
Surrogate: Decachlorob	iphenyl	0.0958		mg/kg dry	0.1031		93	30-150			
Surrogate: Decachlorob	piphenyl [2C]	0.0976		mg/kg dry	0.1031		95	30-150			
Surrogate: Tetrachloro-	m-xylene	0.0865		mg/kg dry	0.1031		84	30-150			
Surrogate: Tetrachloro-	m-xylene [2C]	0.0943		mg/kg dry	0.1031		91	30-150			
Matrix Spike	Source: 20F0219-13										
Aroclor 1016		1.9	0.1	mg/kg dry	2.075	ND	91	40-140			
Aroclor 1016 [2C]		1.9	0.1	mg/kg dry	2.075	ND	94	40-140			
Aroclor 1260		2.0	0.1	mg/kg dry	2.075	ND	98	40-140			
Aroclor 1260 [2C]		1.9	0.1	mg/kg dry	2.075	ND	92	40-140			
Surrogate: Decachloroh	binhenvl	0.0982		mg/kg dry	0.1038		95	30-150			
Surrogate: Decachlorob	iphenvl [2C]	0.100		mg/kg dry	0.1038		97	30-150			
Surrogate: Tetrachloro-	·m-xvlene	0.0893		mg/kg dry	0.1038		86	30-150			
Surrogate: Tetrachloro-	m-xylene [2C]	0.0972		mg/kg dry	0.1038		94	30-150			
Matrix Spike Dup	Source: 20F0219-12										
Aroclor 1016		1.9	0.1	mg/kg dry	2.066	ND	92	40-140	5	30	
Aroclor 1016 [2C]		1.9	0.1	mg/kg dry	2.066	ND	94	40-140	2	30	
Aroclor 1260		2.0	0.1	mg/kg dry	2.066	0.09	92	40-140	0.3	30	
Aroclor 1260 [2C]		1.9	0.1	mg/kg dry	2.066	0.09	86	40-140	0.3	30	
Surrogate: Decachlorob	piphenvl	0.0978		mg/kg dry	0.1033		95	30-150			
Surrogate: Decachlorob	iphenvl [2C]	0.100		mg/kg dry	0.1033		97	30-150			
Surrogate: Tetrachloro-	m-xvlene	0.0893		mg/kg dry	0.1033		86	30-150			
Surrogate: Tetrachloro-	m-xylene [2C]	0.0976		mg/kg dry	0.1033		94	30-150			
Matrix Spike Dup	Source: 20F0219-13										
Aroclor 1016		1.8	0.1	mg/kg dry	2.059	ND	87	40-140	6	30	
Aroclor 1016 [2C]		1.8	0.1	mg/kg dry	2.059	ND	88	40-140	7	30	
Aroclor 1260		1.8	0.1	mg/kg dry	2.059	ND	90	40-140	10	30	
Aroclor 1260 [2C]		1.8	0.1	mg/kg dry	2.059	ND	86	40-140	7	30	
Surraate: Decachlarah	ninhenvl	0.0946		mg/kq dry	0.1029		92	30-150			
Surrogate: Decachlorob	ninhenvl [2C]	0.0961		mg/kg dry	0.1029		<i>93</i>	30-150			
Surrogate Tetrachloro-	m-yvlene	0.0842		mg/kg dry	0.1029		82	30-150			
Surrogate: Tetrachloro-	·m-xvlene [2C]	0.0916		mg/kg dry	0.1029		89	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0219

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	
F/V	Final Volume
Ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NK	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0219

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB</u>	ESS Project ID: 20F0219 Date Received: 6/4/2020	<u> </u>
Shipped/Delivered Via: ESS Courier	Project Due Date: 6/11/2020 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No (NA
4. Is a Cooler Present? Yes Temp: 1.2 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes (No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / 💋 Yes / No Yes / No / NA
13. Are the samples properly preserved?Yes / Noa. If metals preserved upon receipt:Date:b. Low Level VOA vials frozen:Date:	Time: By: Time: By:	_
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? Date:	Yes / No Yes / No Time: By:	_

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	49845	Yes	N/A	Yes	4 oz. Jar	NP	
2	49846	Yes	N/A	Yes	4 oz. Jar	NP	
3	49847	Yes	N/A	Yes	4 oz. Jar	NP	
4	49848	Yes	N/A	Yes	4 oz. Jar	NP	
5	49849	Yes	N/A	Yes	4 oz. Jar	NP	
6	49850	Yes	N/A	Yes	4 oz. Jar	NP	
7	49851	Yes	N/A	Yes	4 oz. Jar	NP	
8	49852	Yes	N/A	Yes	4 oz. Jar	NP	
9	49853	Yes	N/A	Yes	4 oz. Jar	NP	
10	49854	Yes	N/A	Yes	4 oz. Jar	NP	
11	49855	Yes	N/A	Yes	4 oz. Jar	NP	
12	49856	Yes	N/A	Yes	4 oz. Jar	NP	
13	49857	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled?

Initials Yes

ESS Laboratory Sample and Cooler Receipt Check	dist
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Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB</u>	ESS Project ID:	20F0219
Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Yes / No / NA Yes / No / NA Yes / No / NA	
Completed	Date & Time: 64/20	P53
By: Reviewed By:	Date & Time:	Jang
By:	6/4/20	2002

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V	

ESS L	aborator	y .		C	HAIN OF CUSTO	Y	ESS Lat	; #	DF	160	<u> </u>					
Division of	Thielsch Eng	ineering, Inc.		Turn Time	(5-Day) Rush	·	Reporti	ng , ,		- <u>1</u>	1					
185 Franci	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island		Limits	<u>, ~(</u>	25	ngra						<u> </u>
Tel. (401)	461-7181 Fa	x (401) 461-448	86	is th	is project for any of the follow	ving?:	Electon	ic 🗆 u	mit Checker	010	2.5	C Standard	Excel			
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Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 ml	_ 4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9	ļļ	 	 	╏┈┝╼┤			╶┼╼╾╀	
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Page 2/2

ESS Laboratory				CHAIN OF CUSTODY				ESS Lab # 20F0219										
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ESS Lab	Date	Collection Time	Sample Type	Sample Matrix	San	nple ID DDificin(cs	0.10M	PU	М									
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Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	ss B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Steri	le V-Vial	A6										
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 mL	. 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9									┢┷┟╴	_
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2010164

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 2:02 pm, Sep 18, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0164

SAMPLE RECEIPT

The following samples were received on September 03, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20I0164-01	CW-01-10	Solid	8082A
20I0164-02	CW-01-11	Solid	8082A
20I0164-03	CW-04-05	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0164

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0164

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-10 Date Sampled: 09/02/20 09:30 Percent Solids: 99 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010164 ESS Laboratory Sample ID: 2010164-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 7:50	Sequence D0I0062	Batch DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
Aroclor 1260 [2C]	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 7:50	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		85 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-11 Date Sampled: 09/02/20 09:35 Percent Solids: 99 Initial Volume: 5.24 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010164 ESS Laboratory Sample ID: 2010164-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 8:09	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
Aroclor 1254	0.2 (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
Aroclor 1260	ND (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 8:09	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-04-05 Date Sampled: 09/02/20 11:00 Percent Solids: 97 Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010164 ESS Laboratory Sample ID: 2010164-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 8:28	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
Aroclor 1260	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 8:28	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0164

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		, 		· ·						
Batch DI01019 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Arocior 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0202		mg/kg wet	0.02500		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene	0.0131		mg/kg wet	0.02500		52	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0142		mg/kg wet	0.02500		57	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		83	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			
	0 0208		ma/ka wet	0 02500		p2	30-150			
Surrogate: Decachlorobiphenyl	0.0200		mg/kg wet	0.02300		76	30-150			
Surrogate: Decachiorobiphenyl [2C]	0.0176		ma/ka wet	0.02500		70	30-150			
Surroyate: Tetrachloro-m-xylene	0.0174		ma/ka wet	0,02500		70	30-150			
							100			
Aroclor 1016	0.4	0.02	ma/ka wet	0.5000		84	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	ma/ka wet	0.5000		80	40-140	2	30	
Aroclor 1260	0.5	0.02	ma/ka wet	0.5000		100	40-140	-	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140	6	30	
	-	-	5, 5 - 2				-		-	
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0168		mg/kg wet	0.02500		67	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0164

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	
F/V	Final Volume
Ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NK	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0164

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Conceo</u>	ESS Project ID: 201-61-69- 201-0	2164
Shipped/Delivered Via: ESS Carrier	Date Received: 9/3/22 Project Due Date: 9/11/2 Days for Project: 570	
1. Air bill manifest present?	6. Does COC match bottles?	
2. Were custody seals present?	7. Is COC complete and correct?8. Were samples received intact?	
	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / 🕼
Temp: lced with:	10. Were any analyses received outside of hold time?	Yes / No
5. Was COC signed and dated by client?		
11. Any Subcontracting needed? Yes / Gov ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: 	Time: By: Time: By:	
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? Date:	Yes / No Yes / No Time: By:	_
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cyar Pesticid	ide and 608 es)
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Initials Yes / No Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA	
Completed By: Reviewed By: Delivered By:	Date & Time: <u>9/4/2, /1: 58</u> Date & Time: <u>9/4/2-1225</u> <u>7/4/2-1225</u>	

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ESS L	aborator	у		(CHAIN OF CUSTO	DY	ESS La	ıb#		20	TO	016	1			
Division of	f Thielsch Eng	nineering, Inc.		Turn Time	5-Day Rush		Report	ina			a		1			
185 Franc	es Avenue, C	ranston RI 0291	10	Regulatory State	Rhode Island		Limit	S				< 0.5 m	ng/kg PC	Bs		
Tel. (401)	461-7181 Fa	ax (401) 461-44	86	Is th	is project for any of the foll	owing?:	Elector	nic	Limit C	hecker	i i		Standa	rd Excel	111	
www.essla	aboratory.com		Section and the section of the secti	O CT RC	Р О МА МСР (⊖ RGP	Delivera	bles	✓ Other (Please Spe	cify →)			PD	F	
Company Name Project # Coneco Engineers & Scientists, Inc 5675.F				Project Name												
	Co	ntact Person		0070.1	Address	monon St, Pawlucket Ri	w			1						
		Mark Zoller			4 First Street		ysi			199						
	City	or.	S	tate	Zip Code	PO #	Ana									
Т	elephone Nu	mber	FAX	Number	Email Add	Jress	-	N								
	508-697-31	91			Mzoller, Kloftus, Ddifrancesc	o, Lguiry@coneco.com		808								
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sa	mple ID		PCBs								
01	9/2/20	9:30 a.m.	Grab	Solid	CI	V-01-10		X								
02	9/2/20	9:35 a.m.	Grab	Solid	CI	V-01-11		X								
03	9/2/20	11:00 a.m.	Grab	Solid	CV	V-04-05		X								
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Ca	ntoinor Typo:	AC Air Consott	a AC Ambor Clas													
Conto	inor Volume:	1 100 ml 2	2.5 gol 2.250 ml	A 200 ml E 500	-Cubitainer G - Glass O-	Other P-Poly S-Ster	rile V-Vial	AG								
Drocor	vation Code	1-Non Preserved	2.5 gai 3-250 IIIL	4-300 ML 5-500	ML 6-1L 7-VOA 8-20	z 9-4 oz 10-8 oz	11-Other*	9								
Flese	valion coue.	1-NOIT FTESEIVED	2-101 3-112504	4-HNU3 5-NAOH 6-M	etnanol 7-Na2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-DI H2O	11-Other*	11								
		Laboratory	Lico Only		Numb	er of Containers per s	Sample:	1								
0	D	Laboratory	Use Only	1. I	Sampled by : DJD/LG	G									(
Cooler	Present:				Comments:	Please spe	cify "Othe	r" pre	servativ	e and co	ontaine	rs types	s in this	space		
Seals	s Intact:				National Grid Project, Use M	anual Soxhlet Extractio	n per EPA	Metho	od 3540.	Report D	ory Weid	aht, 11=	ICE.			
Cooler Te	emperature:	-0.8	°C		Homogenize Sample TSCA	genize Sample TSCA Requirements. Provide Full Data Package									com	
Re	linquished by:	(Signature, Date	e & Time)	Received By: (Signature, Date & Time)	Relinquished By:	(Signature	, Date	& Time)		Rec	eived E	By: (Signa	ature, Da	ite & Tir	me)
J	with	913120	2:30 pm	Lunkul	913120 /440	TPul a	9/3/20	11	155	1	1/2	e	a/31	12	17:	515
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										V						



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0024

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 2:28 pm, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0024

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 21E0024-01

Sample Name CW-01-12 **Matrix** Solid Analysis 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0024

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0024

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

ESS Laboratory



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: CW-01-12 Date Sampled: 04/27/21 11:15 Percent Solids: 99 Initial Volume: 5.69 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0024 ESS Laboratory Sample ID: 21E0024-01 Sample Matrix: Solid Units: mg/kg dry Analyst: DMC Prepared: 5/5/21 12:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.09) ND (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10400 DE10406
Aroclor 1232	ND (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10406
Aroclor 1242	ND (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10406
Aroclor 1248	ND (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10406
Aroclor 1254 [2C]	0.3 (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10406
Aroclor 1260 [2C]	0.3 (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10406
Aroclor 1262	ND (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10406
Aroclor 1268	ND (0.09)		8082A		1	05/06/21 13:09	D1E0066	DE10406
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0024

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10406 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenvl	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Surragate: Decachlarabiahanul	0.0248		ma/ka wet	0.02500		99	30-150			
Surrogate: Decachlorobiohenvl [20]	0.0250		mg/ka wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-vulano	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-yvlene [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		86	40-140	0.3	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140	0.6	30	
Aroclor 1260	0.5	0.02	mg/ka wet	0.5000		92	40-140	0.7	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	0.3	30	
	0.0247			0.02500		00	20 150			
Surrogate: Decachlorobiphenyl	0.0247		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0247		mg/kg wet	0.02500		99 85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0215		mg/kg wet	0.02500		00	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		90	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0024

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NR	Results reported as a mathematical average. No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0024

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0024
Shipped/Delivered Via: ESS Courier	Date Received: 5/3/2021
	Days for Project: 5 Day
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles? Yes
2. Were custody seals present?	7. Is COC complete and correct? Yes
3. Is radiation count <100 CPM?	8. Were samples received intact? Yes
4. Is a Cooler Present?	9. Were labs informed about <u>short holds & rushes</u> ? Yes / No (NA
Temp: 3.9 Iced with: Ice	10. Were any analyses received outside of hold time? Yes (No)
5. Was COC signed and dated by client? Yes	
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? Yes / Image: Yes / No a. Air bubbles in aqueous VOAs? Yes / No b. Does methanol cover soil completely? Yes / No / NA
13. Are the samples properly preserved? (es) / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:
Sample Receiving Notes:	
lead in labeled container pon to	confirm Sulle ontim
<u></u>	
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? <u>Den D: Francesco</u> Date:	Yes 1 00 5/4/2 Yes YNO S 71 Time: 15/4 By:)
Client confirmed Sam	ple rec'd is Cw-01-12
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cyanide and 608 Pesticides)
1 161622 Yes N/A Yes	4 oz. Jar NP
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	nitials Yes / No Yes / No / NA Yes / No / NA Yes / No / NA
Completed	Date & Time:5(424 1543
By:	Date & Time:5/4/21 15:55

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0024	
Shipped/Delivered Via: ESS Courier	Date Received: 5/3/2021 Project Due Date: 5/10/2021 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No S. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes Yes / No (NA)
Temp: 3.9 Iced with: Ice 5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time? Y	′es (No)
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / 🜆 Yes / No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: Sample Receiving Notes: 	Time: By: Time: By:	
14. Was there a need to contact Project Manager? a. Was there a need to contact the client?	Yes / No Yes / No	
	Uy	
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cyanide Pesticides)	and 608
1 161622 Yes N/A Yes 2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted? Completed By: Reviewed By: Arecompleted Arecompleted By: Arecompleted By:	4 oz. Jar NP Initials $\underbrace{\mathcal{U}}_{Yes / No}_{Yes / No / NA}_{Yes / No / NA}_{Yes / No / NA}_{Yes / No / NA}_{Yes / No / NA}$ Date & Time: $\underbrace{5[u]_{24}}_{154}$ 15965	

Page 10 of 11

TICK		185 Fran	aces Avenue		CHAIN	OF CUS	TODY		ESS	Lab	# 7.	IFA	20	74	Page	e 1	of	1
		Cransto	n, RI 02910	Turn Time (Days)	☑>5 □5	□ 4 □ 3	2 1	Same Day		ELE	CTRO	NIC DE	LIVER	ABLES	(Final F	Reports	are PDI	F)
$(20)^{2}$	1	Phone: 4	01-461-7181	Regulatory State:	Rhode Island	Criteria:	<0.5 mg/kg			.imit C	hecker		State F	Forms	ΠE	QuIS		
		Fax: 40	1-461-4486		Is this projec	ct for any of the	following?:			Excel] Hard (Сору	□ E	nviro D	ata	
LADORAIC	INI	www.essla	boratory.com	□ CT RCP	П МА МСР	RGP	D Permit	□ 401 WQ		CLP-Li	ke Pack	age 🗹] Other	(Specify)	\rightarrow P	DF		
	CLIENT IN	FORMAT	ION		PROJEC	CT INFORM	IATION	and the second				REQU	ESTED	ANAI	YSES			
Client:	Coneco Engi	neers and Sci	entists	Project Name:	Pawtucket 1 Control	l House, 6 Thornton	n Street, Pawtucket, RI	Client										T
Address:	4 First Street	, Bridgewater	, MA	Project Location:	6 Thorn	ton Street, Paw	tucket, RI	acknowledges										tal
				Project Number:		5675.F		that sampling										Nun
Phone:		50869731	91	Project Manager:		Katie Loftus		is compliant										nber
Email				Bill to:				State regulatory	32									. of]
Distribution				PO#:		5675.F		programs	/ 808									Bott
List:	Jaevazelis, Mzc	ller, Kloftus, ddi	francesco@coneco.com	Quote#:	an and the second second		and the state of the state	1 0	3s by									les
ESS Lab ID	Date	Time	Sample Type	Sample Matrix		Sa	mple ID		PCE									1.1
)	4/27/21	11:15 am	frak	Salic	CIAL	-01-17			X									
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																		1
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Con	tainer Type:	AC-Ai	ir Cassette AG-Aml	ber Glass B-BOD Bott	tle C-Cubitainer	J-Jar O-Oth	er P-Poly S-Ster	rile V-Vial	AG									
Contai	iner Volume:	1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	500 mL 6-1L	7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9									1
Preser	vation Code:	1-Non Pre	eserved 2-HCl 3-H2S0	04 4-HNO3 5-NaOH 6	-Methanol 7-Na2S2	2O3 8-ZnAce, Na	OH 9-NH4Cl 10-DI	H2O 11-Other*	11									1-2-2
	Sampled by :						Chain r	eeds to be fil	led o	out n	eatly	and c	omple	tely fo	r on t	ime d	eliver	у.
Lab	oratory Use	Only	Comments:	* Please specify "O	ther" preserva	tive and conta	iners types in this	s space	A 11	samr	les su	mitter	are sul	niect to				
Coolar Tame	agratura (°C):	3.9	National Grid Proj	ect, TSCA requireme	ents, use manual	soxhlet extracti	ion per EPA metho	od 3540, Report	ESS	S Lab	oratory	's pavi	nent ter	ms and		Dissolve	d Filtra	tion
Cooler Temp	perature (°C).	10.	dry weight, homog	genize sample, provid	e full data packa	ge, 11 = Ice					co	ndition	s.				Lah Fil	lter
Dolingu	richad by (Sic	/ C	Data	Time	Pagoived by	(Signature)	Polinquisho	d by (Signature)	1	11.20	Data		Th		Po	oived b	Lat In	atura)
Kennqu	institution by (iste	(ilature)	Date	1 mie	Received by	(Signature)	Kennquisne	d by (Signature)			Date			ne	INC	cerveu	V (Sign	ature)
Damin	h.J.L.		4/27/21	1001 00	15 M	15121	lo N.	X	_	51	3/2)		11:	44	14	anto	21 Lic	un
Relingu	ished by (Sig	(nature)	Date	Time	Received by	(Signature)	Relinquishe	d by (Signature)		1999	Date	2928 (C)	Tit	ne	Re	ceived b	y (Sign	ature)
																		Constraint States
																		243



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 19J0015

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 5:28 pm, Oct 08, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0015

SAMPLE RECEIPT

The following samples were received on October 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
19J0015-01	BR-03-01	Soil	8082A
19J0015-02	BR-03-02	Soil	8082A
19J0015-03	BR-03-03	Soil	8082A
19J0015-04	BR-03-04	Soil	8082A
19J0015-05	BR-03-05	Soil	8082A
19J0015-06	BR-03-06	Soil	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0015

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0015

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-01 Date Sampled: 09/27/19 08:00 Percent Solids: 100 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0015 ESS Laboratory Sample ID: 19J0015-01 Sample Matrix: Soil Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 23:26	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
Aroclor 1260	1.4 (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 23:26	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		85 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-02 Date Sampled: 09/27/19 08:05 Percent Solids: 100 Initial Volume: 5.36 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0015 ESS Laboratory Sample ID: 19J0015-02 Sample Matrix: Soil Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 23:45	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
Aroclor 1254	ND (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
Aroclor 1260	0.4 (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 23:45	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-03 Date Sampled: 09/27/19 08:10 Percent Solids: 100 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0015 ESS Laboratory Sample ID: 19J0015-03 Sample Matrix: Soil Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/04/19 0:04	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
Aroclor 1254	ND (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
Aroclor 1260	0.1 (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
Aroclor 1268	ND (0.1)		8082A		1	10/04/19 0:04	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-04 Date Sampled: 09/27/19 08:15 Percent Solids: 100 Initial Volume: 5.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0015 ESS Laboratory Sample ID: 19J0015-04 Sample Matrix: Soil Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 15:55

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/04/19 0:23	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
Aroclor 1254	ND (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
Aroclor 1260	0.2 (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
Aroclor 1268	ND (0.09)		8082A		1	10/04/19 0:23	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-05 Date Sampled: 09/27/19 08:20 Percent Solids: 100 Initial Volume: 5.33 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0015 ESS Laboratory Sample ID: 19J0015-05 Sample Matrix: Soil Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/04/19 0:43	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
Aroclor 1254	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
Aroclor 1260	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
Aroclor 1268	ND (0.09)		8082A		1	10/04/19 0:43	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-06 Date Sampled: 09/27/19 08:25 Percent Solids: 100 Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0015 ESS Laboratory Sample ID: 19J0015-06 Sample Matrix: Soil Units: mg/kg dry Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/04/19 1:02	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
Aroclor 1254	ND (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
Aroclor 1260	0.2 (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
Aroclor 1268	ND (0.1)		8082A		1	10/04/19 1:02	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0015

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	3iphenyls	(PCB)					
Batch CJ90206 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenvl	0.0206		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0202		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0181		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0191		mg/kg wet	0.02500		77	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		100	40-140			
	0 0 200		ma/ka wet	0 02500		en.	30-150			
Surrogate: Decachlorobiphenyl	0.0200		mg/kg wet	0.02500		00 70	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0197 A A188		mg/kg wet	0.02500		79 75	30-150			
Surrogate: Tetrachloro-m-xylene	0.0100 A A101		mg/kg wet	0.02500		73	30-150			
Surrogate: I etrachloro-m-xylene [2C]	0.0151		my/ky wet	0.02500						
LCS Dup		0.02		0.5000			40.140			
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140	4	30	
Arocior 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	3	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		93	40-140	3	30	
Arocior 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		102	40-140	2	30	
Surrogate: Decachlorobiphenyl	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0201		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0196		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0200		mg/kg wet	0.02500		80	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0015

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0015

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco Engir	neers, S <u>cient</u>	ists & Sur <u>v - K</u>	(PB/TB/MM	E	SS Project ID:	19J0015	
Shipped/De	livered Via:	1	ESS Courier		Proj	ect Due Date:	10/8/2019	
- 11	-				Da	vs for Project:	5 Day	
1. Air bill ma Air No.:	anifest preser	nt? NA		No	6. Does C	OC match bottles?		Yes
- 2. Were cus	stody seals p	esent?		No	7. Is COC	complete and correct	ct?	Yes
3. Is radiatio	on count <10	O CPM?	Ľ	Yes	8. Were s	amples received inte	ici?	Ves / No/ NA
4. Is a Cook Temp:	er Present? 0.4 _	Iced with:		Yes	9. were a 10. Were	any analyses receiv	red outside of hold time?	Yes / No
5. Was CO	C signed and	dated by cli	ent?	Yes				
11. Any Sub ESS S	contracting n Sample IDs: Analysis: TAT:	eeded?	Yes		12. Were a. Air bul b. Does i	VOAs received? bbles in aqueous VO methanol cover soil o	As? completely?	Yes No Yes No / NA
13. Are the a. If metals	samples pro preserved up	perly presen oon receipt: frozen:	ved? (Yes No Date:	Tim	e:	By:	
D. LOW Leve	er voa viais	irozen.		Date				
Sample Rec	ceiving Notes	:						
14. Was the a. Was the Who was co	ere a need to re a need to ontacted?	contact Pro	ject Manager slient?	? Date:	Yes No Yes Ne Tim	ne:	Ву:	
14. Was the a. Was the Who was co	ere a need to re a need to ontacted?	contact Pro	ject Manager klient?	? Date:	Yes No Yes No Tim	ne:	By:	
14. Was the a. Was the Who was co	ere a need to re a need to ontacted?	contact Pro	ject Manager dient?	Date:	Yes No Yes No Tim	ne:	Ву:	
14. Was the a. Was the Who was co Sample Number	ere a need to re a need to ontacted? Container ID	Proper Container	ject Manager dient? Air Bubbles Present	? Date: Sufficient Volume	Yes No Yes Tim Tim Container Type	ie: Preservati	By: ve Record pH	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number	ere a need to re a need to ontacted? Container ID 393647	Proper Container Yes	ject Manager dient? Air Bubbles Present	? Date: 	Yes No Yes Tim Container Type 4 oz. Jar - Unpres	ne: Preservati	By: ve Record pH	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number 01 02	contacted? Container ID 393647 393646	Proper Container Yes Yes	ject Manager dient? Air Bubbles Present NA NA	? Date: Sufficient Volume Yes Yes	Yes No Yes No Tim Container Type 4 oz. Jar - Unpres 4 oz. Jar - Unpres	le: Preservati NP NP NP	By: ve Record pH	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number 01 02 03 04	Container ID 393647 393645 393644	Proper Container Yes Yes Yes Yes	ject Manager dient? Air Bubbles Present NA NA NA NA	? Date: Sufficient Volume Yes Yes Yes Yes Yes	Yes No Yes Tim Container Type 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres	ne: Preservati NP NP NP NP NP	By: ve Record pH	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number 01 02 03 04 05	Container ID 393647 393645 393644 393643	Proper Contact the contact the	ject Manager dient? Air Bubbles Present NA NA NA NA NA NA	? Date: 	Yes No Yes Tim Container Type 4 oz. Jar - Unpres 4 oz. Jar - Unpres	Preservati	By: ve Record pH	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number 01 02 03 04 05 06	ere a need to re a need to ontacted? Container ID 393647 393646 393645 393643 393643 393642	Proper Contact the of Proper Container Yes Yes Yes Yes Yes Yes Yes Yes	ject Manager dient? Air Bubbles Present NA NA NA NA NA NA NA	? Date: Date: Sufficient Volume Yes Yes Yes Yes Yes Yes Yes Yes	Yes No Yes No Yes Tim Container Type 4 oz. Jar - Unpres 4 oz. Jar - Unpres	Preservati NP NP NP NP NP NP NP NP NP	By: ve Record pH	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number 01 02 03 04 05 06 2nd Review Were all co Are barcodo Are all Flasi Are all Hex Are all QC s Are VOA st	container ID 393647 393646 393645 393646 393645 393644 393643 393642 wontainers sc e labels on co hpoint stickers chrome sticl stickers attach	Proper Contact the contact the	ject Manager dient? Air Bubbles Present NA NA NA NA NA NA Storage/lab? ners? container ID # d? s noted?	? Date: Date: Sufficient Volume Yes Yes Yes Yes Yes Yes Yes	Yes No Yes No Yes Tim Container Type 4 oz. Jar - Unpres 4 oz. Jar - Unpres	Preservati	By: ve Record pH	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number 01 02 03 04 05 06 2nd Review Were all co Are barcodd Are all Flas Are all Are Are all Plas Are VOA st Completed By:	ere a need to re a need to ontacted? Container ID 393647 393646 393645 393644 393643 393643 393642 w ontainers sc e labels on co hpoint sticker Chrome stick stickers attach	Proper Contact the contact the	ject Manager dient? Air Bubbles Present NA NA NA NA NA NA Storage/lab?	? Date: 	Yes No Yes Yes Time:	Preservati	By: ve Record pH Pr	(Cyanide and 608 esticides)
14. Was the a. Was the Who was co Sample Number 01 02 03 04 05 06 2nd Review Were all co Are barcodo Are all Flast Are all Hex Are all QC s Are VOA st Completed By: Reviewed	Container ID 393647 393646 393645 393645 393643 393643 393642 w ontainers sc e labels on co hpoint sticker Chrome sticl stickers attach	Proper Contact the contact the contact the contact the contact the container Proper Container Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	ject Manager dient? Air Bubbles Present NA NA NA NA NA NA Storage/lab? ners? container ID # d? s noted?	? Date: Date: Sufficient Volume Yes Yes Yes Yes Yes Yes Yes	Yes No Yes No Yes Yes Time Container Type 4 oz. Jar - Unpres 4 oz. Jar - Unpres 7 oz. Jar - Unpres 9 oz. Jar	Preservati	By: ve Record pH Pr 9/5 2048	(Cyanide and 608 esticides)

ESS L	aboratory	/		C		Y	ESS La	b #	19	5	$\overline{\infty}$	5					
Division of	Thielsch Enai	neerina, Inc.		5-Day Rush	Reporting				PCBs <0.5 mg/kg								
185 Franc	es Avenue, Cra	anston RI 0291	10	Regulatory State	Rhode Island		Limit	5				FCBS <0.5 mg/kg					
Tel. (401)	461-7181 Fax	x (401) 461-44	86	ls thi	is project for any of the follow	ving?:	Elector	nic [] Limit Cl	necker			🗌 Star	dard Exce	el		
www.essla	boratory.com			O CT RCP	O MA MCP O	RGP	Delivera	bles (Other (Please S	pecify -	»)			PDF		
	Con	npany Name		Project #	Project Nat Reutusket 1 Central House, 6 Ther	me mon Ave. Powtucket Pl										1	
	Coneco Eng	ntact Person	ientists	5075.F	Address	IRON AVE, I BIRGORGE IN	<u>.</u>		ł								
	N	/lark Zoller			4 First Street		lys										
	City	-	S S	tate	Zip Code	PO #	Ana		i i								
	Bridgewate	mber	FAX	Number	Email Addr	ess	-	82									
	508-697-319	91		<u> </u>	jaevazalis, mzoller,kloftu	s@coneco.com		8									
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	DiFrancesc- Sam	ple ID		PCB									
01	9/27/2019	8:00 a.m.	Grab	Solid	BR-	03-01		×									
02	9/27/2019	8:05 a.m.	Grab	Solid	BR-	03-02		X									
03	9/27/2019	8:10 a.m.	Grab	Solid	BR-	03-03		x									
04	9/27/2019	8:15 a.m.	Grab	Solid	BR-	03-04		x								\perp	
05	9/27/2019	8:20 a.m.	Grab	Solid	BR-	03-05		x									
06	9/27/2019	8:25 a.m.	Grab	Solid	BR-	03-06		x									
· · · · · · · · · · · · · · · · · · ·					-												
Co	ntainer Type:	AC-Air Casse	tte AG-Amber Glas	ss B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	rile V-Vial	AG							\downarrow		
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 ml	- 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other	9							\vdash		
Prese	rvation Code:	1-Non Preserved	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaO	H 9-NH4CI 10-DI H20) 11-Other*	11				++		[_]	\vdash		<u></u>
					Numbe	r of Containers per	Sample:	1									
		Laborator	y Use Only		Sampled by : DJD/MJN	Λ											
Coole	r Present:	~			Comments:	Please sp	ecify "Oth	ər" pre	servati	ve and	d conta	ainers t	ypes in t	his spa	ice		
Seal	s Intact:	NA	-		National G	rid Project, Use Mar	ual Soxhlei	Extra	ction pe	r EPA	Metho	d 3540,	Report D)ry Weiç	ght, 11=	=ICE	
Cooler T	emperature:	,	°C Ke Len v	DOY -	Homogeni	ze Sample TSCA Re	auirements	. Prov	ide Full	Data F	ackag	е					
Re	elinguished by:	(Signature, Da	ate & Time)	Rèceived By:	(Signature, Date & Time)	Relinquished By	r: (Signature	, Date	& Time)	$\overline{}$	Receiv	ed By: (S	ignatur	e, Date	& Tim	e)
Den	27.	9/7	olig 1:21.		10/1/19/23/2	LAC.	- 101	119	161	37		N	ايامر	19	163	7	
R	elinquished by:	(Signature Da	<u>-////////////////////////////////////</u>	Received By:	(Signature, Date & Time)	Relinquished By	: (Signature	e. Date	& Time)		Receiv	ed By: (S	ignatur	e, Date	& Tim	e)
		. (Oignataio, Di			<u> </u>							1		. <u> </u>			••
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2010161

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

REVIEWED

By ESS Laboratory at 1:49 pm, Sep 18, 2020

integration because it produces more accurate results.

Laurel Stoddard Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



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Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20I0161

SAMPLE RECEIPT

The following samples were received on September 03, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 20I0161-01

Sample Name Brick-04-01 **Matrix** Soil Analysis 8082A



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PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



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CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: Brick-04-01 Date Sampled: 09/02/20 09:00 Percent Solids: 100 Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2010161 ESS Laboratory Sample ID: 2010161-01 Sample Matrix: Soil Units: mg/kg dry Analyst: MJV Prepared: 9/4/20 12:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/09/20 5:16	Sequence D0I0062	<u>Batch</u> DI01019
Aroclor 1221	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
Aroclor 1232	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
Aroclor 1242	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
Aroclor 1248	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
Aroclor 1254	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
Aroclor 1260	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
Aroclor 1262	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
Aroclor 1268	ND (0.1)		8082A		1	09/09/20 5:16	D0I0062	DI01019
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		44 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>49 %</i>		30-150				



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Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		, 		· ·						
Batch DI01019 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Arocior 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0202		mg/kg wet	0.02500		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene	0.0131		mg/kg wet	0.02500		52	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0142		mg/kg wet	0.02500		57	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		83	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			
	0 0208		ma/ka wet	0 02500		p2	30-150			
Surrogate: Decachlorobiphenyl	0.0200		mg/kg wet	0.02300		76	30-150			
Surrogate: Decachiorobiphenyl [2C]	0.0176		mg/kg wet	0.02500		70	30-150			
Surroyate: Tetrachloro-m-xylene	0.0174		ma/ka wet	0,02500		70	30-150			
							100			
Aroclor 1016	0.4	0.02	ma/ka wet	0.5000		84	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	ma/ka wet	0.5000		80	40-140	2	30	
Aroclor 1260	0.5	0.02	ma/ka wet	0.5000		100	40-140	-	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140	6	30	
	-	-	5, 5 - 2				-		-	
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0168		mg/kg wet	0.02500		67	30-150			



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Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
Ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



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ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>ConeCo</u>	ESS Project ID: 20Tol6	_
Shipped/Delivered Via: ESS Callel	Date Received: 9/3/20 Project Due Date: 9/1/20 Days for Project: 6	
1. Air bill manifest present?	6. Does COC match bottles?	y
 Were custody seals present? Is radiation count <100 CPM? Yes A is a Cooler Present? 	 8. Were samples received intact? 9. Were labs informed about <u>short holds & rushes</u>? 	Yes / No /MA
Temp: Iced with: 5. Was COC signed and dated by client?	10. Were any analyses received outside of hold time?	YesyINd
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes (Ne Yes / No Yes / No / NA
13. Are the samples properly preserved? Image: Construct of the samples properly preserved? a. If metals preserved upon receipt: Image: Date: Dat	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes / No Yes / No Time: By:	
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cya Pestic	anide and 608 ides)
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Initials Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA	
Completed By: Reviewed By:	Date & Time: <u>9/4/20 11:4/6</u> Date & Time: <u>9/4/00 6003</u>	
By:	9/4/2 1203	<u></u>

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ESS La	aboratory	,		C	HAIN OF CUSTOR	Y	ESS La	b#				20.	I016	1		
Division of	Thielsch Engli	neering, Inc.		Turn Time	5-Day Rush		Report	ing			<0.5 mg/kg PCBs					
185 France	es Avenue, Cra	anston RI 0291	0	Regulatory State	Rhode Island		Limit	S								
Tel. (401) 4	161-7181 Fax	< (401) 461-448	86	Is th	is project for any of the follow	wing?:	Elector	nic	Limit C	hecker		L] Sta	ndard Excel			
www.essla	boratory.com				р () МА МСР ()) RGP	Delivera	bles	✓ Other	Please Spe	cify -→)	·····		»F	<u>r</u> r	
	Con	npany Name		Project #	Project Na	me orten St. Douducket Pl										
	Coneco Engir	tact Person	sts, Inc.		Address	Notion St, Fawideker IV	- <u>v</u>								1 1	
	- 001 N	lark Zoller			4 First Street		İysi									
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I	508-697-319	nber 91	FAA	aunder	Mzoller, Ktoftus, Ddifrancesco.	Lguiry@coneco.com		Зõ								
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	San	npie ID		PCBs								
01	9/2/2020	9:00 a.m.	Grab	Solid	Brick	k-04-01		x								
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	tainer Type:	AC Air Cossot	to AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer G-Glass O-C	Other P-Poly S-St	erile V-Via	AG				┝╼┠╶╏	·			
Conta	iper Volume:	1-100 ml 2	-2.5 gal 3-250 m	4-300 mL 5-50) mL 6-1L 7-VOA 8-2 02	z 9-4 oz 10-8 oz	11-Other	* 9								
Broco	votion Code:	1-Non Preserver	2.0 gai 0 200 ///	4-HNO3 5-NaOH 6-N	ethanol 7-Na2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-DI H2	0 11-Other*	11								
Presei	vation code.	-Null Fleselved	24101 0412004		Numbe	er of Containers pe	r Sample:	1								
	-	Laborator	y Use Only		Sampled by : DJD/LG0	G										
Cooler	Present:	·	•		Comments:	Please s	pecify "Oth	er" pr	eservati	ve and c	ontainer	s types in	this space			
Seal	s Intact:				National Grid Project, Use Ma	anual Soxhlet Extrac	tion per EP/	A Meth	od 3540	, Report	Dry Weig	ht, 11=ICE				
Cooler To	emperature:	-0.8	°C		Homogenize Sample TSCA F	Requirements, Provid	le Full Data	Pack	ge	Add em	ail: Jaeva	zelis@con	eco.com			
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished B	y: (Signatur	e, Dat	e & Time)	Rece	eived By: (Signature, I	Date & T	ime)	
4	sig	9/3/20	2:30 pm	TD "	113120 1440	Luchul	91312	0	1755		1_	<u>- 9</u>	13/20	1715	5	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0023

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:13 pm, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0023

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 21E0023-01 21E0023-02 21E0023-03 Sample Name BR-03-07 BR-03-08 BR-03-09 **Matrix** Solid Solid Solid Analysis 8082A 8082A 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0023

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0023

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-07 Date Sampled: 04/27/21 11:00 Percent Solids: 100 Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0023 ESS Laboratory Sample ID: 21E0023-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 11:35

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 16:48	Sequence D1E0066	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
Aroclor 1260	0.3 (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 16:48	D1E0066	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		50 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		59 %		30-150				

ESS Laboratory



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BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-08 Date Sampled: 04/27/21 11:05 Percent Solids: 95 Initial Volume: 5.74 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0023 ESS Laboratory Sample ID: 21E0023-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 11:35

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 17:07	Sequence D1E0066	<u>Batch</u> DE10325
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
Aroclor 1254	ND (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
Aroclor 1260	0.2 (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 17:07	D1E0066	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		44 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		50 %		30-150				

ESS Laboratory



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-09 Date Sampled: 04/27/21 11:10 Percent Solids: 100 Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0023 ESS Laboratory Sample ID: 21E0023-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 5/4/21 11:35

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 17:26	Sequence D1E0066	<u>Batch</u> DE10325
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
Aroclor 1260	1.5 (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 17:26	D1E0066	DE10325
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		45 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0023

Quality Control Data

Analytic Result MRL Units Level Result %REC Limit Qualifier 8082A Polychlorinated Biphenyls (PCB) Bank Medit DE10325 - 5540C Bank NO 0.02 mgla wet No					Spike	Source		%REC		RPD	
BIOREAD PONJECINATED BIPHENYS (PCB) IMACE DISCIPATION INCOMENDATION INCOM	Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Network in the Decomposition of the Decompositic of the Decomposition of the Decompositic the Decomposition			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Bink No 0.02 mg/ng wet No	Batch DE10325 - 3540C										
nume No 0.02 mg/ng wet set is is is is is is is is is is is is is	Blank										
Note: Note: Note: Note: Note: Accel: 1221 100 0.02 mailing wet Note:	Aroclor 1016	ND	0.02	ma/ka wet							
Name No N	Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Nor No N	Aroclor 1221	ND	0.02	ma/ka wet							
Ancher 123 ND 0.02 maging wet handle 122 Ancher 122 ND 0.02 majne wet handle 122 Ancher 122 ND 0.02 majne wet handle 124 Ancher 1242 ND 0.02 majne wet handle 126 Ancher 1250 ND 0.02 majne wet handle 126 Ancher 1252 ND 0.02 majne wet handle 126 Sarogate: Decadurabelphenyl 0.025 majne wet handle 126 Sarogate: Decadurabelphenyl 0.027 majne wet handle 126 Sarogate: Decadurabelphenyl 0.027 majne wet handle 126 Sarogate: Decadurabelphenyl 0.028 majne wet handle 126	Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
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Aredor 1248 [2C] ND 0.02 mg/kg wet Aredor 1254 ND 0.02 mg/kg wet Aredor 1250 ND 0.02 mg/kg wet Aredor 1252 ND 0.02 mg/kg wet Aredor 1258 ND 0.02 mg/kg wet Aredor 1258 ND 0.02 mg/kg wet Aredor 1268 [2C] ND 0.02 mg/kg wet Strongatic: Excelehonolythomy/ 0.0259 mg/kg wet 0.02509 107 30-150 Strongatic: Excelehonolythomy/ (2C) 0.0259 mg/kg wet 0.02509 81 30-150 Strongatic: Excelehonolythomy/ (2C) 0.022 mg/kg wet 0.02509 81 40-140 Aredor 1260 [C2] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Aredor 1260 [C2] 0.4 0.02 mg/kg wet <t< td=""><td>Aroclor 1248</td><td>ND</td><td>0.02</td><td>mg/kg wet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Aroclor 1248	ND	0.02	mg/kg wet							
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Ancdor 1254 [2C] ND 0.02 mg/kg wet Ancdor 1260 ND 0.02 mg/kg wet Ancdor 1260 ND 0.02 mg/kg wet Ancdor 1262 [2C] ND 0.02 mg/kg wet Ancdor 1262 [2C] ND 0.02 mg/kg wet Ancdor 1263 ND 0.02 mg/kg wet Ancdor 1263 ND 0.02 mg/kg wet Ancdor 1263 [2C] ND 0.02 mg/kg wet Ancdor 1265 [2C] ND 0.02 mg/kg wet Surrogate: Decarbinatoribipheny! 0.4259 mg/kg wet 0.42590 100 30-159 Surrogate: Tetachloron-mylene 0.4200 mg/kg wet 0.42590 89 30-159 Surrogate: Tetachloron-mylene 0.4200 mg/kg wet 0.42590 89 30-159 Surrogate: Tetachloron-mylene 0.4200 mg/kg wet 0.5000 88 40-140 Ancdor 116 (2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Surrogate: Tetachloron-mylene 0.55 0.02 mg/kg wet 0.5000 80	Aroclor 1254	ND	0.02	mg/kg wet							
Arackir 1260 ND 0.02 mg/kg wet Arackir 1260 [Z] ND 0.02 mg/kg wet Arackir 1262 [ZC] ND 0.02 mg/kg wet Arackir 1263 ND 0.02 mg/kg wet Arackir 1262 [ZC] ND 0.02 mg/kg wet Arackir 1268 ND 0.02 mg/kg wet Arackir 1268 [ZC] ND 0.02 mg/kg wet Arackir 1268 [ZC] ND 0.02 mg/kg wet Arackir 1268 [ZC] ND 0.02 mg/kg wet Sarragate: Decarkinarchiphenyl 0.4258 mg/kg wet 0.42590 1.03 30-159 Sarragate: Tetanchioro-m-sylene 0.4023 mg/kg wet 0.42590 81 30-159 Sarragate: Tetanchioro-m-sylene [ZC] 0.44 0.02 mg/kg wet 0.5000 88 40-140 Arackir 1016 0.4 0.02 mg/kg wet 0.5000 95 40-140 Arackir 1016 [ZC] 0.44 0.02 mg/kg wet 0.5000 95 40-140 Sarragate: Decarkhironchiphenyl 0.4255 mg/kg wet <td< td=""><td>Aroclor 1254 [2C]</td><td>ND</td><td>0.02</td><td>mg/kg wet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Avodor 1260 [2C] ND 0.02 mg/kg wet Avodor 1262 ND 0.02 mg/kg wet Avodor 1262 ND 0.02 mg/kg wet Avodor 1268 [2C] ND 0.02 mg/kg wet Avodor 1268 [2C] ND 0.02 mg/kg wet Avodor 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decoder/bene/bene/bene/f 0.02590 103 30-150 Surrogate: Decoder/bene/bene/f 0.022 mg/kg wet 0.02500 40 30-150 Surrogate: Decoder/Decoder/bene/bene/f 0.022 mg/kg wet 0.02500 40 30-150 Surrogate: Decoder/Deco	Aroclor 1260	ND	0.02	mg/kg wet							
Arader 1252 ND 0.02 mg/kg wet Arader 1262 [2C] ND 0.02 mg/kg wet Arader 1262 [2C] ND 0.02 mg/kg wet Arader 1268 [2C] ND 0.02 mg/kg wet Arader 1268 [2C] ND 0.02 mg/kg wet 0.0250 1.03 30-157 Surragate: Decachbarobiphenyl 0.0250 0.02 mg/kg wet 0.02500 100 30-157 Surragate: Tetrachloro-ms-ylene 0.020 mg/kg wet 0.02500 81 30-157 Surragate: Tetrachloro-ms-ylene [2C] 0.022 mg/kg wet 0.02500 81 30-157 Surragate: Tetrachloro-ms-ylene [2C] 0.022 mg/kg wet 0.0500 88 40-140 Arader 1260 0.4 0.02 mg/kg wet 0.5000 88 40-140 Arader 1260 0.4 0.02 mg/kg wet 0.5000 88 40-140 Surragate: Decachbarobiphenyl 0.026 mg/kg wet 0.5000 88 40-140 Surragate: Decachbarobiphenyl 0.026 mg/kg wet 0.0250 89 30-150 <td>Aroclor 1260 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aracker 1262 [2C] ND 0.02 mg/kg wet Aracker 1268 ND 0.02 mg/kg wet Aracker 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decachloroblyhenyl 0.0259 mg/kg wet 0.02500 103 30-159 Surrogate: Decachloroblyhenyl / 2C) 0.022 mg/kg wet 0.02500 81 30-159 Surrogate: Tetrachloro-m-sylene / 2C) 0.022 mg/kg wet 0.02500 89 30-159 Surrogate: Tetrachloro-m-sylene / 2C) 0.022 mg/kg wet 0.02500 89 30-159 Surrogate: Tetrachloro-m-sylene / 2C) 0.022 mg/kg wet 0.02500 89 30-150 LCS NCO 0.4 0.02 mg/kg wet 0.5000 89 40-140 Arockr 1260 0.5 0.02 mg/kg wet 0.5000 89 40-140 Surrogate: Decachloroblyhenyl 0.252 mg/kg wet 0.2520 105 30-150 Surrogate: Decachloroblyhenyl 0.252 mg/kg wet 0.2520 84 30-150	Aroclor 1262	ND	0.02	mg/kg wet							
Arador 1268 ND 0.02 mg/kg wet Arador 1268 [2C] ND 0.02 mg/kg wet Surragate: Decachlorobiphenyl 0.0258 mg/kg wet 0.02500 1.03 30-150 Surragate: Tetrachloro-m-sylene 0.020 mg/kg wet 0.02500 81 30-150 Surragate: Tetrachloro-m-sylene [2C] 0.022 mg/kg wet 0.02500 81 30-150 Surragate: Tetrachloro-m-sylene [2C] 0.022 mg/kg wet 0.02500 81 30-150 Surragate: Tetrachloro-m-sylene [2C] 0.022 mg/kg wet 0.5000 88 40-140 Arodor 1016 0.4 0.02 mg/kg wet 0.5000 89 40-140 Arodor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 88 40-140 Arodor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 88 40-140 Surragate: Decachlorobiphenyl 0.0255 mg/kg wet 0.2500 88 30-150 Surragate: Decachlorobiphenyl [2C] 0.025 mg/kg wet 0.2500 84 30-150 Surragate: Tetrachloro-m-s	Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Andori 1268 [2C] ND 0.02 mg/kg wet 0.0250 1.03 3.0-150 Surrogate: Decachlorobiphenyl [2C] 0.0250 mg/kg wet 0.02500 81 30-150 Surrogate: Tetrachloro-m-sylene 0.0203 mg/kg wet 0.02500 81 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.0203 mg/kg wet 0.02500 81 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.020 mg/kg wet 0.02500 88 40-140 Surrogate: Tetrachloro-m-sylene [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Arockor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Arockor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Surrogate: Decachlorobiphenyl 0.225 mg/kg wet 0.2500 89 40-140 5000 Surrogate: Decachlorobiphenyl 0.225 mg/kg wet 0.25200 86 30-150 5000 Surrogate: Tetrachloro-m-sylene [2C] 0.22	Aroclor 1268	ND	0.02	mg/kg wet							
Surogate: Decachlorobiphenyl 0.0259 mg/kg wet 0.02500 103 30-150 Surogate: Tetrachloro-m-xylene 0.0207 mg/kg wet 0.02500 81 30-150 Surogate: Tetrachloro-m-xylene 0.0207 mg/kg wet 0.02500 89 30-150 Surogate: Tetrachloro-m-xylene 0.022 mg/kg wet 0.02500 89 30-150 Surogate: Tetrachloro-m-xylene 0.022 mg/kg wet 0.02500 89 30-150 Surogate: Tetrachloro-m-xylene 0.02 mg/kg wet 0.0500 89 40-140 Arockor 1016 0.4 0.02 mg/kg wet 0.5000 89 40-140 Arockor 1260 0.5 0.02 mg/kg wet 0.5000 89 40-140 Surogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.02500 105 30-150 Surogate: Decachlorobiphenyl 0.026 mg/kg wet 0.02500 84 30-150 Surogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 86 30-150 <td>Aroclor 1268 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachbrobiphenyl D2250 mg/kg wet D.02500 BI 30-150 Surrogate: Tetrachloro-m-sylene D.0223 mg/kg wet D.02500 BI 30-150 Surrogate: Tetrachloro-m-sylene D.0220 mg/kg wet D.02500 BI 30-150 Surrogate: Tetrachloro-m-sylene D.022 mg/kg wet D.02500 BI 30-150 LS Nackor D.04 D.02 mg/kg wet D.5000 BS 40-140 Arockor D.64 D.02 mg/kg wet D.5000 BS 40-140 Arockor D.64 D.02 mg/kg wet D.5000 BS 40-140 Arockor D.64 D.02 mg/kg wet D.5000 BS 40-140 Surrogate: Decachbrobiphenyl D.0262 mg/kg wet D.02500 105 30-150 Surrogate: Decachbrobiphenyl D.0216 mg/kg wet D.02500 86 30-150 Surrogate: Tetrachloro-m-sylene <td>Surrogate: Decachlorobiphenyl</td> <td>0.0258</td> <td></td> <td>mg/kg wet</td> <td>0.02500</td> <td></td> <td>103</td> <td>30-150</td> <td></td> <td></td> <td></td>	Surrogate: Decachlorobiphenyl	0.0258		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xylene 0.0203 mg/kg wet 0.02500 81 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0222 mg/kg wet 0.02500 89 30-150 LCS <	Surrogate: Decachlorobiphenyl [2C]	0.0250		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-sylene [2C] 0.0222 mg/kg wet 0.0250 89 30-150 LCS	Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
LCS Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 88 40-140 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 95 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 88 40-140 Surrogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.02500 105 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0255 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene 0.0216 mg/kg wet 0.02500 86 30-150 Surrogate: Tetrachloro-m-xylene 0.0216 mg/kg wet 0.5000 90 40-140 3 30 Aroclor 1016 0.4 0.02 </td <td>Surrogate: Tetrachloro-m-xylene [2C]</td> <td>0.0222</td> <td></td> <td>mg/kg wet</td> <td>0.02500</td> <td></td> <td>89</td> <td>30-150</td> <td></td> <td></td> <td></td>	Surrogate: Tetrachloro-m-xylene [2C]	0.0222		mg/kg wet	0.02500		89	30-150			
Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 88 40-140 Aroclor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 95 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 88 40-140 Surrogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.5000 88 40-140 Surrogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.02500 105 30-150 Surrogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 84 30-150 CLS Dup mg/kg wet 0.5000 90 40-140 3 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1260	LCS										
Arodor 1016 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 Arodor 1260 0.5 0.02 mg/kg wet 0.5000 88 40-140 Arodor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 88 40-140 Surrogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.02500 88 40-140 Surrogate: Decachlorobiphenyl [2C] 0.0255 mg/kg wet 0.02500 105 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0216 mg/kg wet 0.02500 86 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0216 mg/kg wet 0.02500 86 30-150 LCS Dup mg/kg wet 0.0220 86 30-150 100 100 30 Arodor 1016 0.4 0.02 mg/kg wet 0.5000 90 40-140 3 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Arodor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 96 40-140	Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 95 40-140 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 88 40-140 Surrogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.02500 105 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0255 mg/kg wet 0.02500 102 30-150 Surrogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene 0.0216 mg/kg wet 0.02500 86 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0216 mg/kg wet 0.02500 86 30-150 LCS Dup mg/kg wet 0.020 86 30-150 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 90 40-140 3 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 96 40-140 0.6 30	Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 88 40-140 Surrogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.02500 105 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0255 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene 0.0216 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene 0.0216 mg/kg wet 0.02500 86 30-150 Surrogate: Tetrachloro-m-xylene 0.0216 mg/kg wet 0.02500 86 30-150 LCS Dup noclor 1016 0.4 0.02 mg/kg wet 0.5000 90 40-140 2 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Surrogate: Decachlorobiphenyl 0.267 mg/kg wet 0.5000 96 40-140 0.66 30 Surrogate: Decachlorobiphenyl 0.0267	Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Surrogate: Decachlorobiphenyl 0.0262 mg/kg wet 0.02500 105 $30-150$ Surrogate: Decachlorobiphenyl [2C] 0.0255 mg/kg wet 0.02500 84 $30-150$ Surrogate: Tetrachloro-m-xylene 0.0216 mg/kg wet 0.02500 84 $30-150$ Surrogate: Tetrachloro-m-xylene [2C] 0.0216 mg/kg wet 0.02500 86 $30-150$ LCS Dup L L L L L L L Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 90 $40-140$ 2 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 $40-140$ 3 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 96 $40-140$ 1 30 Surrogate: Decachlorobiphenyl [2C] 0.0267 mg/kg wet 0.02500 107 $30-150$ 100 $30-150$ Surrogate: Decachlorobiphenyl [2C] 0.0267 mg/kg wet 0.02500 107 $30-150$ 100 100	Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Surrogate: Decachlorobiphenyl [2C] 0.0255 mg/kg wet 0.02500 102 30-150 Surrogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0216 mg/kg wet 0.02500 86 30-150 LCS Dup 30 Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 90 40-140 2 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl 0.0267 mg/kg wet 0.02500 107 30-150 50 30 50 50 50 50 107 30-150 50 50 50 50 50 50 50 50 50	Surrogate: Decachlorobiphenyl	0.0262		mg/kg wet	0.02500		105	30-150			
Surrogate: Tetrachloro-m-xylene 0.0210 mg/kg wet 0.02500 84 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0216 mg/kg wet 0.02500 86 30-150 LCS Dup L L L L L L L Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 90 40-140 2 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl 0.0267 mg/kg wet 0.02500 107 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150	Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0216 mg/kg wet 0.02500 86 30-150 LCS Dup Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 90 40-140 2 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl 0.4 0.02 mg/kg wet 0.5000 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl [2C] 0.0267 mg/kg wet 0.02500 107 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene [2C]	Surrogate: Tetrachloro-m-xylene	0.0210		mg/kg wet	0.02500		84	30-150			
LCS Dup Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 90 40-140 2 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl 0.0267 mg/kg wet 0.02500 107 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 104 30-150 Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150	Surrogate: Tetrachloro-m-xylene [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Aroclor 1016 0.4 0.02 mg/kg wet 0.500 90 40-140 2 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 91 40-140 3 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 96 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl 0.0267 mg/kg wet 0.02500 107 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 104 30-150 Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150	LCS Dup										
Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.500 91 40-140 3 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.500 96 40-140 1 30 Aroclor 1260 0.4 0.02 mg/kg wet 0.5000 89 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 16 30 Surrogate: Decachlorobiphenyl 0.4 0.02 mg/kg wet 0.02500 107 30-150 50 Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 104 30-150 50 50 Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 50 50 Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150 50 50	Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		90	40-140	2	30	
Aroclor 1260 0.5 0.02 mg/kg wet 0.500 96 40-140 1 30 Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.500 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl 0.0267 mg/kg wet 0.02500 107 30-150 5000 30 Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 104 30-150 5000	Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140	3	30	
Aroclor 1260 [2C] 0.4 0.02 mg/kg wet 0.5000 89 40-140 0.6 30 Surrogate: Decachlorobiphenyl 0.0267 mg/kg wet 0.02500 107 30-150 Image: Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 104 30-150 Image: Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 Image: Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150 Image: Surrogate: Tetrachloro-m-xylene [2C] Image: Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150 Image: Surrogate: Tetrachloro-m-xylene [2C] Image: Surrogate: Surrogate: Tetrachloro-m-xylene [2C] Image: Surrogate: Surrogate: Surrogate: Tetrachloro-m-xylene [2C] Image: Surrogate: Surro	Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		96	40-140	1	30	
Surrogate: Decachlorobiphenyl 0.0267 mg/kg wet 0.02500 107 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 104 30-150 Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0250 mg/kg wet 0.02500 90 30-150	Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	0.6	30	
Surrogate: Decachlorobiphenyl [2C] 0.0260 mg/kg wet 0.02500 104 30-150 Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150	Surrogate: Decachlorobiphenyl	0.0267		mg/kg wet	0.02500		107	30-150			
Surrogate: Tetrachloro-m-xylene 0.0218 mg/kg wet 0.02500 87 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150	Surrogate: Decachlorobiphenyl [2C]	0.0260		mg/kg wet	0.02500		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0225 mg/kg wet 0.02500 90 30-150	Surrogate: Tetrachloro-m-xylene	0.0218		mg/kg wet	0.02500		87	30-150			
	Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0023

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NR	Results reported as a mathematical average. No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0023

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Proj	ect ID: 21	E0023	_
Shinned/Delivered Via: ESS Courier	Date Rec Project Due	:eived:5/. : Date: 5/1	0/2021	
	Days for F	roject:	i Day	-
1. Air bill manifest present? No	6. Does COC ma	tch bottles?		Yes
	7. Is COC comple	ete and correct?		Yes
2. Were custody seals present? No	8. Were samples	received intact?		Yes
3. Is radiation count <100 CPM? Yes	9. Were labs info	ormed about short hold	s & rushes?	Yes / No TNA
4. Is a Cooler Present? <u>Yes</u> Temp: <u>3.9</u> Iced with: <u>Ice</u>	10. Were any an	alyses received outside	of hold time?	Yes
5. Was COC signed and dated by client? Yes		· · · · · · · · · · · · · · · · · · ·		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs r a. Air bubbles in b. Does methan	eceived? aqueous VOAs? ol cover soil completely?		Yes No Yes No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: 	Time: Time:	By: By:		_
14. Was there a need to contact Project Manager?	Yes No		· · · · · · · · · · · · · · · · · · ·	
Who was contacted? Date:	Time:	By:		_
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type	Preservative	Record pH (Cyar Pesticio	nide and 608 les)
1 160972 Yes N/A Yes	4 oz. Jar	NP		
2 160973 Yes N/A Yes	4 oz. Jar	NP		
3 160974 Yes N/A Yes	4 oz. Jar	NP		
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Initials Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA			
Completed Automatica Provider State	Data & Time: 1867	E E AN		
Reviewed By:	Date & Time:	53/24	1903	

TICN		185 Fra	nces Avenue		CHAII	N OF CUS	STODY		ESS	S Lab	# 21	E	307	23	Pag	je]	of	1
		Cransto	on, RI 02910	Turn Time (Days)	⊠>5 □ 5			🗖 Same Day		ELE	CTRON	IC DEL	IVERA	BLES (Final	Report	are Pl	DF)
	102	Phone:	401-461-7181	Regulatory State:	Rhode Island	Criteria:	<0.5 mg/kg			Limit C	hecker		State Fo	orms		EQuIS		
LAB	775	Fax: 4	01-461-4486		Is this proje	ect for any of the	e following?:			Excel			Hard C	ору	ΠĒ	Enviro I	Data	
TADORIN	21	www.essla	aboratory.com	CT RCP	MA MCP	🗖 RGP	🗖 Permit	🗆 401 WQ		CLP-Li	ke Packag	ge 🗹	Other (Specify)	→ F	DF		
	CLIENT IN	FORMA	FION	1	PROJE	CT INFORM	AATION			Ļ	R	EQUE	STED	ANAL	YSES	5		
Client:	: Coneco Engi	neers and Sc	ientists	Project Name:	Pawtucket 1 Contro	ol House, 6 Thornto	on Street, Pawtucket, RI	Client							l i			
Address:	4 First Street,	Bridgewate	r, MA	Project Location:	6 Thor	nton Street, Pav	vtucket, RI	acknowledges										
				Project Number:		5675.F		that sampling										
Phone:	:	5086973	191	Project Manager:		Katie Loftus	\$	is compliant										ber
Email				Bill to:				State regulatory	2									
Distribution List:	Į			PO#:		5675.F		programs	v 80			Í.						Bott
	Jaevazelis, Mzol	ler, Kloftus, dd	ifrancesco@coneco.com	Quote#:					3° p									
ESS Lab ID	Date	Time	Sample Type	Sample Matrix		Sa	mple ID		PCI									
	4/27/21	11:00 am	Grab	Solid	B	R - 03-	07		X									
2	'i'	11:05 cm	1	-	B	R - 03	-08		X									
3	\checkmark	11:10 am			R	R - 03	-09		X									
					L_,													
							······································											
																		<u> </u>
Con	tainer Type:	AC-A	ir Cassette AG-Aml	per Glass B-BOD Bott	le C-Cubitainer	r J-Jar O-Oth	ner P-Poly S-Ste	rile V-Vial	AG	· · ·								
Contai	iner Volume:	1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	500 mL 6-1L	7-VOA 8-2 oz	: 9-4 oz 10-8 oz	11-Other*	9								···-	
Preserv	vation Code:	1-Non Pro	eserved 2-HCI 3-H2S(04 4-HNO3 5-NaOH 6	-Methanol 7-Na2S	2O3 8-ZnAce, Na	OH 9-NH4Cl 10-DI	H2O 11-Other*	11									
5	Sampled by :			·····			Chain r	eeds to be fil	lled	out n	eatly a	nd coi	nplet	ely for	• on t	ime d	elive	ry.
Labo	oratory Use O	nly	Comments:	* Please specify "O	ther" preserva	tive and conta	iners types in this	s space	Δ1	lsamn	les subn	nitted a	re subi	ect to				
Cooler Temp	persture (%).	3.9	National Grid Proj	ect, TSCA requireme	nts, use manual	soxhlet extract	ion per EPA metho	d 3540, Report	ES	S Labo	bratory's	pavme	nt tern	ns and		Dissolve	d Filtr	ation
	лаше (С <i>).</i> _	Ac	dry weight, homog	enize sample, provid	e full data packa	age, 11 = Ice					cond	litions.					I ah F	ïlter
Relinau	/ ished by (Sign	uature)	l Date	Time	Received hy	(Signature)	Relinquishe	d by (Signature)			Date		Tim	e	Re	ceived	v (Sig	nafure)
0						5/3/21										1	all	
Daniel	Dunn	New /	4/30/21	1:01 pm	for the	A 12.11	Son the	12		5/3	121	/	6:9	14	5	3102	1.10	NUS
Relinqu	ished by (Sigr	ature)	Date	Time	Received by	(Signature)	Relinquishe	d by (Signature)			Date		Tim	e	Re	ceived	oy (Sig	nature)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2110144

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

By ESS Laboratory at 12:11 pm, Sep 14, 2021

REVIEWED

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0144

SAMPLE RECEIPT

The following samples were received on September 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21I0144-01	BR-03-10	Solid	8082A
2110144-02	BR-04-02	Solid	8082A
21I0144-03	BR-DUP-01	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0144

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0144

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-03-10 Date Sampled: 09/02/21 08:30 Percent Solids: 100 Initial Volume: 5.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110144 ESS Laboratory Sample ID: 2110144-01 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/13/21 16:38	Sequence D1I0160	<u>Batch</u> DI10708
Aroclor 1221	ND (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
Aroclor 1232	ND (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
Aroclor 1242	ND (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
Aroclor 1248	ND (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
Aroclor 1254	ND (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
Aroclor 1262	ND (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
Aroclor 1268	ND (0.1)		8082A		1	09/13/21 16:38	D1I0160	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-04-02 Date Sampled: 09/02/21 09:00 Percent Solids: 100 Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110144 ESS Laboratory Sample ID: 2110144-02 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.1) ND (0.1)		8082A 8082A		1	09/13/21 16:58	D110160	DI10708
Aroclor 1232	ND (0.1)		8082A		1	09/13/21 16:58	D1I0160	DI10708
Aroclor 1242	ND (0.1)		8082A		1	09/13/21 16:58	D1I0160	DI10708
Aroclor 1248	ND (0.1)		8082A		1	09/13/21 16:58	D1I0160	DI10708
Aroclor 1254	ND (0.1)		8082A		1	09/13/21 16:58	D1I0160	DI10708
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	09/13/21 16:58	D1I0160	DI10708
Aroclor 1262	ND (0.1)		8082A		1	09/13/21 16:58	D1I0160	DI10708
Aroclor 1268	ND (0.1)		8082A		1	09/13/21 16:58	D1I0160	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: BR-DUP-01 Date Sampled: 09/02/21 09:30 Percent Solids: 100 Initial Volume: 5.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110144 ESS Laboratory Sample ID: 2110144-03 Sample Matrix: Solid Units: mg/kg dry Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 2:05	Sequence D1I0091	<u>Batch</u> DI10708
Aroclor 1221	ND (0.1)		8082A		1	09/11/21 2:05	D1I0091	DI10708
Aroclor 1232	ND (0.1)		8082A		1	09/11/21 2:05	D1I0091	DI10708
Aroclor 1242	ND (0.1)		8082A		1	09/11/21 2:05	D1I0091	DI10708
Aroclor 1248	ND (0.1)		8082A		1	09/11/21 2:05	D1I0091	DI10708
Aroclor 1254	ND (0.1)		8082A		1	09/11/21 2:05	D1I0091	DI10708
Aroclor 1260 [2C]	0.1 (0.1)		8082A		1	09/11/21 2:05	D1I0091	DI10708
Aroclor 1262	ND (0.1)		8082A		1	09/11/21 2:05	D1I0091	DI10708
Aroclor 1268	ND (0.1)		8082A		1	09/11/21 2:05	D110091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0144

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Blank										
Aroclor 1016	ND	0.02	ma/ka wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1222 [20]	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232 [20]	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242 [20]	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Arodor 1254	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [20]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
	ND	0.02	ng/kg wei							
Surrogate: Decachlorobiphenyl	0.0208		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0189		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Surrogate: Decachlorobiphenyl	0.0239		mg/kg wet	0.02500		96	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0247		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0241		mg/kg wet	0.02500		97	30-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		86	40-140	7	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	7	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		90	40-140	6	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140	7	30	
Surragata: Decachlarabinhan:	0.0225		ma/ka wet	0.02500		90	30-150			
Surrogate: Decachlorobiphenyl	0.0231		ma/ka wet	0.02500		92	30-150			
Surroyate: Decachioropiphenyi [2C]	0.0208		ma/ka wet	0.02500		83	30-150			
Surrogate. Tetrachloro-m.w/opp.[20]	0.0224		mg/kg wet	0.02500		<u>90</u>	30-150			
	5.022 /			0.02000			55 150			
Matrix Spike Source: 2110144-02										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0144

Quality Control Data

Analyte	Result	MRI	Units	Spike	Source	%REC	%REC	RPD	RPD Limit	Qualifier
Andry C	Result	80824 Doly	chlorinatod [Rinhenvla			LIIIIG		LIIIIL	Quanner
		OUOZA PUIY		phenyis	(FCD)					
Batch DI10708 - 3540C										
Aroclor 1016	1.7	0.1	mg/kg dry	2.008	ND	83	40-140			
Aroclor 1016 [2C]	1.7	0.1	mg/kg dry	2.008	ND	86	40-140			
Aroclor 1260	2.1	0.1	mg/kg dry	2.008	0.3	88	40-140			
Aroclor 1260 [2C]	2.1	0.1	mg/kg dry	2.008	0.3	89	40-140			
Surrogate: Decachlorobiphenyl	0.0815		mg/kg dry	0.1004		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0866		mg/kg dry	0.1004		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0869		mg/kg dry	0.1004		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0962		mg/kg dry	0.1004		96	30-150			
Matrix Spike Source: 2110144-03										
Aroclor 1016	1.4	0.1	mg/kg dry	1.989	ND	73	40-140			
Aroclor 1016 [2C]	1.5	0.1	mg/kg dry	1.989	ND	78	40-140			
Aroclor 1260	1.7	0.1	mg/kg dry	1.989	0.1	79	40-140			
Aroclor 1260 [2C]	1.8	0.1	mg/kg dry	1.989	0.1	86	40-140			
Surrogate: Decachlorobinhenvl	0.0779		mg/kg dry	0.09943		78	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0888		mg/kg dry	0.09943		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0784		mg/kg dry	0.09943		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0875		mg/kg dry	0.09943		88	30-150			
Matrix Spike Dup Source: 2110144-02										
Aroclor 1016	1.6	0.1	mg/kg dry	1.961	ND	84	40-140	2	30	
Aroclor 1016 [2C]	1.7	0.1	mg/kg dry	1.961	ND	86	40-140	2	30	
Aroclor 1260	1.8	0.1	mg/kg dry	1.961	0.3	73	40-140	17	30	
Aroclor 1260 [2C]	1.8	0.1	mg/kg dry	1.961	0.3	75	40-140	17	30	
Surrogate: Decachlorobiphenyl	0.0798		mg/kg dry	0.09803		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0846		mg/kg dry	0.09803		86	30-150			
Surrogate: Tetrachloro-m-xylene	0.0790		mg/kg dry	0.09803		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0891		mg/kg dry	0.09803		91	30-150			
Matrix Spike Dup Source: 21I0144-03										
Aroclor 1016	1.5	0.1	mg/kg dry	1.957	ND	76	40-140	2	30	
Aroclor 1016 [2C]	1.6	0.1	mg/kg dry	1.957	ND	81	40-140	2	30	
Aroclor 1260	1.9	0.1	mg/kg dry	1.957	0.1	89	40-140	10	30	
Aroclor 1260 [2C]	1.9	0.1	mg/kg dry	1.957	0.1	92	40-140	5	30	
Surrogate: Decachlorobiphenvl	0.0740		mg/kg dry	0.09787		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0884		mg/kg dry	0.09787		90	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0804		mg/kg dry	0.09787		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0894		mg/kg dry	0.09787		91	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0144

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	
	Initial volume
F/V	
8	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NR	Results reported as a mathematical average.
	Calculated Analyte
SUB	Subcontracted analysis; see attached report
KL	
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0144

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

> Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client	Coneco Er	igineers, Sci	ientists & Sun	v - KPB/TB		ESS Pr	oject ID:	21101	44	
Shipped/D	elivered Via:		ESS Courier			Date Re Project D	eceived: ue Date:	9/3/2	021	
						Days for	Project:	5 D:	ay	
1. Air bill m Air No.:	nanifest prese	ent? NA	[No]	6. Does COC m	atch bottles?			Yes
2. Were cu	ustody seals p	resent?	ſ	No]	7. Is COC comp	plete and corre	ect?		Yes
3. Is radiat	ion count <10	0 CPM?	ſ	Yes	1	8. Were sample	es received int	act?		Yes
4 Is a Con	ler Present?		с Г	Yes]	9. Were labs in	formed abou	it <u>short holds 8</u>	rushes?	Yes / No (NA)
Temp:	4.1	lced with:		100	1	10. Were any a	analyses recei	ved outside of h	old time?	Yes / No
5. Was CC	DC signed and	dated by c	lient?	Yes]					
11. Any Su ESS	bcontracting i Sample IDs: Analysis: TAT:	needed?	Yes	No	- -	12. Were VOAs a. Air bubbles i b. Does metha	received? n aqueous VC nol cover soil	DAs? completely?		Yes / No Yes / No Yes / No / NA
 Are the a. If metals Low Lev 	e samples pro s preserved u vel VOA vials	perly preser pon receipt: frozen:	ved?	Yes / No Date: Date:		Time: Time:		By: By:		_
Sample Re	ceiving Notes	:								
14. Was th a. Was the Who was c	nere a need to ere a need to ontacted?	contact Pro	oject Manager client?	? Date:	Yes / No Yes / No	Time:		Ву:		
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Containe	ег Туре	Preservati	ive F	Record pH (Cya Pestici	nide and 608 des)
1	204242	Yes	N/A	Yes	4 oz.	Jar	NP			
2 3	204243 204244	Yes Yes	N/A N/A	Yes Yes	4 oz. 4 oz.	Jar Jar	NP NP			
2nd Review Were all co Are barcodd Are all Flas Are all Hex Are all QC Are VOA st	N ontainers sca e labels on co hpoint sticker Chrome stick stickers attach ickers attach	anned into s prrect contain s attached/c rers attached hed? ed if bubbles	storage/lab? ners? container ID # d? 6 noted?	circled?	Initials	(es) No Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA	-			
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Reviewed By:			-		Date & Time:	90		1912		_

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		Fax: 40)1-461-4486		Is this project for any of th	e following?:			Excel		ſ	⊐ Har	Copy		Envi	iro Dat	а	
LABORAL	DRY	www.essla	boratory.com	CT RCP	□ MA MCP □ RGP	Permit	□401 WQ		CLP-L	ike Pac	kage]	á Oth	r (Specif	v) → i	POF			
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	Bridgewater, Massachusetts 02324				5675.F	·- · ··	that sampling	σ										Į
Phone: 508-697-3191				Project Manager:	Kate loftus		is compliant	80	4									Ind
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Contai	iner Volume:	1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	500 mL 6-1L 7-VOA 8-2 oz	: 9-4 oz 10-8 oz	11-Other*	++-9	<u>M</u> 2	<u> </u>	. :	$ \rightarrow $			\square	\perp	\square	13
Preser	vation Code:	1-Non Pre	served 2-HCl 3-H2SC	4 4-HNO3 5-NaOH 6	-Methanol 7-Na2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-DI	H2O 11-Other*	<u>III</u>			┛				Ц			
	Sampled by :	MU	T			Chain n	eeds to be fill	led o	ut n	eatly	and o	compl	etely fo	or on	i tim	ie de	livery	7.
Lab	oratory Use (Only	Comments:	* Please specify "C	Other" preservative and conta	tiners types in thi	is space	All	samp	oles su	bmitte	d are s	ubject to	5 ·	Diss	olved)	Filtrati	0.D
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Page 13 of 13



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810171

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 2:18 pm, Oct 12, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810171-01	PS-01	Solid	6010C, 8082A
1810171-02	PS-02	Solid	6010C, 8082A
1810171-03	PS-03	Solid	6010C, 8082A
1810171-04	PS-04	Solid	6010C, 8082A
1810171-05	PS-05	Solid	6010C, 8082A
1810171-06	PS-06	Solid	6010C, 8082A
1810171-07	PS-07	Solid	6010C, 8082A
1810171-08	PS-08	Solid	6010C, 8082A
1810171-09	PS-09	Solid	6010C, 8082A
1810171-10	PS-10	Solid	6010C, 8082A
1810171-11	PS-11	Solid	6010C, 8082A
1810171-12	PS-12	Solid	6010C, 8082A
1810171-13	PS-13	Solid	6010C, 8082A
1810171-14	PS-14	Solid	6010C, 8082A
1810171-15	PS-15	Solid	6010C, 8082A
1810171-16	PS-16	Solid	6010C, 8082A
1810171-17	PS-17	Solid	6010C, 8082A
1810171-18	PS-18	Solid	6010C, 8082A
1810171-19	PS-19	Solid	6010C, 8082A
1810171-20	PS-20	Solid	6010C, 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl (188% @ 30-150%), Decachlorobiphenyl [2C] (239% @ 30-150%)
Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl (244% @ 30-150%), Decachlorobiphenyl [2C] (220% @ 30-150%)
Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl [2C] (155% @ 30-150%)
Surrogate recovery(ies) diluted below the MRL (SD).
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
Surrogate recovery(ies) diluted below the MRL (SD).
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

Total Metals

1810171-19 <u>Present in Method Blank (B).</u> Chromium

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-01 Date Sampled: 10/01/18 09:05 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-01 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	3.20 (2.00)		6010C		1	KJK	10/10/18 19:22	0.5	100	CJ80961
Chromium	10800 (20.0)		6010C		5	KJK	10/09/18 22:17	0.5	100	CJ80961
Lead	107000 (1000)		6010C		50	KJK	10/10/18 19:38	0.5	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-01 Date Sampled: 10/01/18 09:05 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-01 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 14:27	CJ80502
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 14:27	CJ80502
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 14:27	CJ80502
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 14:27	CJ80502
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 14:27	CJ80502
Aroclor 1254 [2C]	4.7 (0.2)		8082A		5	10/09/18 22:33	CJ80502
Aroclor 1260 [2C]	5.5 (0.2)		8082A		5	10/09/18 22:33	CJ80502
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 14:27	CJ80502
Aroclor 1268 [2C]	0.7 (0.05)		8082A		1	10/08/18 14:27	CJ80502
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		188 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		239 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		103 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		130 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-02 Date Sampled: 10/01/18 09:20 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-02 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	3.52 (1.82)		6010C		1	KJK	10/10/18 19:26	0.55	100	CJ80961
Chromium	8710 (18.2)		6010C		5	KJK	10/09/18 22:34	0.55	100	CJ80961
Lead	50600 (455)		6010C		25	KJK	10/10/18 19:43	0.55	100	CJ80961


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-02 Date Sampled: 10/01/18 09:20 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-02 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Se</u>	equence <u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 14:46	CJ80502
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 14:46	CJ80502
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 14:46	CJ80502
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 14:46	CJ80502
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 14:46	CJ80502
Aroclor 1254 [2C]	5.1 (0.2)		8082A		5	10/09/18 22:52	CJ80502
Aroclor 1260 [2C]	1.6 (0.05)		8082A		1	10/08/18 14:46	CJ80502
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 14:46	CJ80502
Aroclor 1268 [2C]	0.3 (0.05)		8082A		1	10/08/18 14:46	CJ80502
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		244 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		220 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		96 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		115 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-03 Date Sampled: 10/01/18 09:45 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-03 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	10.1 (1.85)		6010C		1	KJK	10/09/18 22:38	0.54	100	CJ80961
Chromium	ND (3.70)		6010C		1	KJK	10/09/18 22:38	0.54	100	CJ80961
Lead	175 (18.5)		6010C		1	KJK	10/09/18 22:38	0.54	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-03 Date Sampled: 10/01/18 09:45 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-03 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1254 [2C]	1.3 (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1260 [2C]	0.5 (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 15:05		CJ80502
Aroclor 1268	ND (0.05)		8082A		1	10/08/18 15:05		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-04 Date Sampled: 10/01/18 10:05 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-04 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	588 (1.61)		6010C		1	KJK	10/09/18 22:43	0.62	100	CJ80961
Chromium	21.7 (3.23)		6010C		1	KJK	10/09/18 22:43	0.62	100	CJ80961
Lead	64900 (1610)		6010C		100	KJK	10/10/18 20:57	0.62	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-04 Date Sampled: 10/01/18 10:05 Percent Solids: N/A Initial Volume: 4 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-04 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> Sequen	<u>ce</u> <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 15:24	CJ80502
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 15:24	CJ80502
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 15:24	CJ80502
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 15:24	CJ80502
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 15:24	CJ80502
Aroclor 1254 [2C]	10.4 (0.6)		8082A		5	10/09/18 23:11	CJ80502
Aroclor 1260 [2C]	3.8 (0.1)		8082A		1	10/08/18 15:24	CJ80502
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 15:24	CJ80502
Aroclor 1268	ND (0.1)		8082A		1	10/08/18 15:24	CJ80502
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		73 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150			
Surrogate: Tetrachloro-m-xylene		78 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-05 Date Sampled: 10/01/18 10:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-05 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	12.0 (1.92)		6010C		1	KJK	10/10/18 19:30	0.52	100	CJ80961
Chromium	26100 (38.5)		6010C		10	KJK	10/09/18 22:49	0.52	100	CJ80961
Lead	88800 (385)		6010C		20	KJK	10/10/18 19:47	0.52	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-05 Date Sampled: 10/01/18 10:25 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-05 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sec	quence Ba	tch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 15:43	CJ8	0502
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 15:43	CJ8	0502
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 15:43	CJ8	0502
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 15:43	CJ8	0502
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 15:43	CJ8	0502
Aroclor 1254 [2C]	7.4 (0.5)		8082A		10	10/09/18 23:30	CJ8	0502
Aroclor 1260 [2C]	5.1 (0.5)		8082A		10	10/09/18 23:30	CJ8	0502
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 15:43	CJ8	0502
Aroclor 1268	ND (0.05)		8082A		1	10/08/18 15:43	CJ8	0502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		91 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		110 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-06 Date Sampled: 10/01/18 10:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-06 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	51.8 (9.62)		6010C		5	KJK	10/09/18 22:53	0.52	100	CJ80961
Chromium	11200 (19.2)		6010C		5	KJK	10/09/18 22:53	0.52	100	CJ80961
Lead	47300 (962)		6010C		50	KJK	10/10/18 19:51	0.52	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-06 Date Sampled: 10/01/18 10:40 Percent Solids: N/A Initial Volume: 2.5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-06 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1221	ND (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1232	ND (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1242	ND (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1248	ND (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1254 [2C]	3.3 (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1260 [2C]	1.4 (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1262	ND (0.2)		8082A		1	10/08/18 16:02		CJ80502
Aroclor 1268	ND (0.2)		8082A		1	10/08/18 16:02		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-07 Date Sampled: 10/01/18 10:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-07 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	37.9 (16.7)		6010C		5	KJK	10/09/18 22:59	0.3	100	CJ80961
Chromium	6980 (33.3)		6010C		5	KJK	10/09/18 22:59	0.3	100	CJ80961
Lead	41500 (167)		6010C		5	KJK	10/09/18 22:59	0.3	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-07 Date Sampled: 10/01/18 10:55 Percent Solids: N/A Initial Volume: 1.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-07 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1221	ND (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1232	ND (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1242	ND (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1248	ND (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1254 [2C]	4.6 (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1260 [2C]	3.9 (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1262	ND (0.5)		8082A		1	10/08/18 16:21		CJ80502
Aroclor 1268	ND (0.5)		8082A		1	10/08/18 16:21		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		114 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		106 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-08 Date Sampled: 10/01/18 11:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-08 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	11.9 (9.62)		6010C		5	KJK	10/09/18 23:03	0.52	100	CJ80961
Chromium	8820 (19.2)		6010C		5	KJK	10/09/18 23:03	0.52	100	CJ80961
Lead	50300 (962)		6010C		50	KJK	10/10/18 19:56	0.52	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-08 Date Sampled: 10/01/18 11:10 Percent Solids: N/A Initial Volume: 4.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-08 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1221	ND (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1232	ND (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1242	ND (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1248	ND (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1254 [2C]	2.4 (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1260	1.4 (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1262	ND (0.1)		8082A		1	10/08/18 16:40		CJ80502
Aroclor 1268 [2C]	0.3 (0.1)		8082A		1	10/08/18 16:40		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-09 Date Sampled: 10/01/18 11:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-09 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	3.83 (2.00)		6010C		1	KJK	10/10/18 19:34	0.5	100	CJ80961
Chromium	7610 (20.0)		6010C		5	KJK	10/09/18 23:09	0.5	100	CJ80961
Lead	82300 (1000)		6010C		50	KJK	10/10/18 20:00	0.5	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-09 Date Sampled: 10/01/18 11:25 Percent Solids: N/A Initial Volume: 3.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-09 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1221	ND (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1232	ND (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1242	ND (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1248	ND (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1254 [2C]	4.5 (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1260 [2C]	3.3 (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1262	ND (0.2)		8082A		1	10/08/18 17:00		CJ80502
Aroclor 1268 [2C]	0.8 (0.2)		8082A		1	10/08/18 17:00		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		126 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		155 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		105 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-10 Date Sampled: 10/01/18 11:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-10 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Cadmium	5.49 (3.45)		6010C		1	KJK	10/10/18 20:17	0.29	100	CJ80961
Chromium	10700 (34.5)		6010C		5	KJK	10/09/18 23:13	0.29	100	CJ80961
Lead	62700 (172)		6010C		5	KJK	10/09/18 23:13	0.29	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-10 Date Sampled: 10/01/18 11:40 Percent Solids: N/A Initial Volume: 0.75 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-10 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1221	ND (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1232	ND (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1242	ND (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1248	ND (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1254 [2C]	4.1 (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1260 [2C]	3.8 (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1262	ND (0.7)		8082A		1	10/08/18 17:19		CJ80502
Aroclor 1268	ND (0.7)		8082A		1	10/08/18 17:19		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		102 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		105 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-11 Date Sampled: 10/01/18 11:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-11 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	22.0 (3.85)		6010C		1	KJK	10/09/18 23:30	0.26	100	CJ80961
Chromium	40.8 (7.69)		6010C		1	KJK	10/09/18 23:30	0.26	100	CJ80961
Lead	572 (38.5)		6010C		1	KJK	10/09/18 23:30	0.26	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-11 Date Sampled: 10/01/18 11:55 Percent Solids: N/A Initial Volume: 0.5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-11 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1221	ND (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1232	ND (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1242	ND (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1248	ND (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1254 [2C]	2.4 (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1260 [2C]	1.6 (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1262	ND (1.0)		8082A		1	10/08/18 17:38		CJ80502
Aroclor 1268	ND (1.0)		8082A		1	10/08/18 17:38		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>93 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-12 Date Sampled: 10/01/18 12:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-12 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	6.12 (5.00)		6010C		1	KJK	10/10/18 20:23	0.2	100	CJ80961
Chromium	6910 (50.0)		6010C		5	KJK	10/09/18 23:36	0.2	100	CJ80961
Lead	35800 (250)		6010C		5	KJK	10/09/18 23:36	0.2	100	CJ80961



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-12 Date Sampled: 10/01/18 12:10 Percent Solids: N/A Initial Volume: 0.31 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-12 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1221	ND (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1232	ND (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1242	ND (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1248	ND (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1254 [2C]	3.2 (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1260 [2C]	3.6 (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1262	ND (1.6)		8082A		1	10/08/18 17:57		CJ80502
Aroclor 1268	ND (1.6)		8082A		1	10/08/18 17:57		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		93 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		114 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-13 Date Sampled: 10/01/18 12:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-13 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	ND (4.17)		6010C		1	KJK	10/09/18 23:40	0.24	100	CJ80961
Chromium	178 (8.33)		6010C		1	KJK	10/09/18 23:40	0.24	100	CJ80961
Lead	964 (41.7)		6010C		1	KJK	10/09/18 23:40	0.24	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-13 Date Sampled: 10/01/18 12:25 Percent Solids: N/A Initial Volume: 2.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-13 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Sequ</u>	ence <u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1221	ND (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1232	ND (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1242	ND (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1248	ND (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1254 [2C]	0.3 (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1260 [2C]	0.4 (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1262	ND (0.2)		8082A		1	10/08/18 18:16	CJ80502
Aroclor 1268	ND (0.2)		8082A		1	10/08/18 18:16	CJ80502
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		90 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		112 %		30-150			
Surrogate: Tetrachloro-m-xylene		97 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		113 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-14 Date Sampled: 10/01/18 12:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-14 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	23.0 (3.23)		6010C		1	KJK	10/09/18 23:44	0.31	100	CJ80961
Chromium	3470 (6.45)		6010C		1	KJK	10/09/18 23:44	0.31	100	CJ80961
Lead	24500 (161)		6010C		5	KJK	10/10/18 20:53	0.31	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-14 Date Sampled: 10/01/18 12:40 Percent Solids: N/A Initial Volume: 1.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-14 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequ	ience Batch
Aroclor 1016	ND (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1221	ND (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1232	ND (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1242	ND (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1248	ND (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1254 [2C]	6.8 (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1260	18.5 (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1262	ND (0.5)		8082A		1	10/08/18 18:35	CJ80502
Aroclor 1268	ND (0.5)		8082A		1	10/08/18 18:35	CJ80502
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		76 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		103 %		30-150			
Surrogate: Tetrachloro-m-xylene		91 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		104 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-15 Date Sampled: 10/01/18 12:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-15 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	1.98 (1.96)		6010C		1	KJK	10/09/18 23:49	0.51	100	CJ80961
Chromium	9250 (19.6)		6010C		5	KJK	10/10/18 21:14	0.51	100	CJ80961
Lead	49800 (980)		6010C		50	KJK	10/10/18 20:31	0.51	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-15 Date Sampled: 10/01/18 12:55 Percent Solids: N/A Initial Volume: 10.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-15 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1221	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1232	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1242	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1248	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1254	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1260 [2C]	12.7 (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1262	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
Aroclor 1268	ND (1.0)		8082A		20	10/09/18 23:49		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-16 Date Sampled: 10/01/18 13:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-16 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	9.10 (1.89)		6010C		1	KJK	10/10/18 0:22	0.53	100	CJ80961
Chromium	3840 (3.77)		6010C		1	KJK	10/10/18 0:22	0.53	100	CJ80961
Lead	21800 (189)		6010C		10	KJK	10/10/18 21:35	0.53	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-16 Date Sampled: 10/01/18 13:10 Percent Solids: N/A Initial Volume: 10.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-16 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
Aroclor 1254	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
Aroclor 1260 [2C]	4.3 (0.2)		8082A		5	10/10/18 0:08		CJ80502
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
Aroclor 1268	ND (0.05)		8082A		1	10/08/18 19:13		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-17 Date Sampled: 10/01/18 13:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-17 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	9.89 (2.04)		6010C		1	KJK	10/10/18 20:27	0.49	100	CJ80961
Chromium	14100 (81.6)		6010C		20	KJK	10/10/18 1:03	0.49	100	CJ80961
Lead	81200 (408)		6010C		20	KJK	10/10/18 1:03	0.49	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-17 Date Sampled: 10/01/18 13:25 Percent Solids: N/A Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-17 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1221	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1232	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1242	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1248	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1254	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1260	45.0 (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1262	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
Aroclor 1268	ND (2.0)		8082A		20	10/10/18 0:27		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-18 Date Sampled: 10/01/18 13:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-18 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	5.46 (1.89)		6010C		1	KJK	10/10/18 1:07	0.53	100	CJ80961
Chromium	4010 (3.77)		6010C		1	KJK	10/10/18 1:07	0.53	100	CJ80961
Lead	21800 (189)		6010C		10	KJK	10/10/18 22:15	0.53	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-18 Date Sampled: 10/01/18 13:40 Percent Solids: N/A Initial Volume: 10.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-18 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 22:24		CJ80502
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 22:24		CJ80502
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 22:24		CJ80502
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 22:24		CJ80502
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 22:24		CJ80502
Aroclor 1254	1.7 (0.05)		8082A		1	10/08/18 22:24		CJ80502
Aroclor 1260 [2C]	3.1 (0.2)		8082A		5	10/10/18 0:46		CJ80502
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 22:24		CJ80502
Aroclor 1268 [2C]	0.6 (0.05)		8082A		1	10/08/18 22:24		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		98 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>79 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-19 Date Sampled: 10/01/18 13:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-19 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyst	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	9.18 (1.61)		6010C		1	KJK	10/10/18 1:13	0.62	100	CJ80961
Chromium	B 11.0 (3.23)		6010C		1	KJK	10/10/18 1:13	0.62	100	CJ80961
Lead	220 (16.1)		6010C		1	KJK	10/10/18 1:13	0.62	100	CJ80961



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-19 Date Sampled: 10/01/18 13:55 Percent Solids: N/A Initial Volume: 10.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-19 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 15:28

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1254	1.2 (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1260 [2C]	1.7 (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 22:43		CJ80502
Aroclor 1268 [2C]	0.5 (0.05)		8082A		1	10/08/18 22:43		CJ80502
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-20 Date Sampled: 10/01/18 14:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-20 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	22.3 (1.82)		6010C		1	KJK	10/10/18 1:19	0.55	100	CJ80961
Chromium	ND (3.64)		6010C		1	KJK	10/10/18 1:19	0.55	100	CJ80961
Lead	32.3 (18.2)		6010C		1	KJK	10/10/18 1:19	0.55	100	CJ80961


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-20 Date Sampled: 10/01/18 14:10 Percent Solids: N/A Initial Volume: 10.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810171 ESS Laboratory Sample ID: 1810171-20 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1221	ND (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1232	ND (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1242	ND (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1248	ND (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1254 [2C]	0.3 (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1260 [2C]	0.3 (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1262	ND (0.05)		8082A		1	10/11/18 11:13		CJ80913
Aroclor 1268 [2C]	0.1 (0.05)		8082A		1	10/11/18 11:13		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>49 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		36 %		30-150				
Surrogate: Tetrachloro-m-xylene		39 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		42 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			Total Meta	ls						-
Batch CJ80961 - 3050B										
Blank										
Cadmium	ND	0.50	mg/kg wet							
Chromium	1.24	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
LCS										
Cadmium	82.8	1.75	mg/kg wet	98.70		84	84-116			
Chromium	226	3.51	mg/kg wet	240.0		94	85-115			
Lead	262	17.5	mg/kg wet	276.0		95	84-116			
LCS Dup										
Cadmium	84.4	1.96	mg/kg wet	98.70		85	84-116	2	20	
Chromium	229	3.92	mg/kg wet	240.0		96	85-115	2	20	
Lead	263	19.6	mg/kg wet	276.0		95	84-116	0.7	20	
	8	3082A Poly	chlorinated E	Biphenyls	(PCB)					

Batch CJ80502 - 3540C							
Blank							
Aroclor 1016	ND	0.02	mg/kg wet				
Aroclor 1016 [2C]	ND	0.02	mg/kg wet				
Aroclor 1221	ND	0.02	mg/kg wet				
Aroclor 1221 [2C]	ND	0.02	mg/kg wet				
Aroclor 1232	ND	0.02	mg/kg wet				
Aroclor 1232 [2C]	ND	0.02	mg/kg wet				
Aroclor 1242	ND	0.02	mg/kg wet				
Aroclor 1242 [2C]	ND	0.02	mg/kg wet				
Aroclor 1248	ND	0.02	mg/kg wet				
Aroclor 1248 [2C]	ND	0.02	mg/kg wet				
Aroclor 1254	ND	0.02	mg/kg wet				
Aroclor 1254 [2C]	ND	0.02	mg/kg wet				
Aroclor 1260	ND	0.02	mg/kg wet				
Aroclor 1260 [2C]	ND	0.02	mg/kg wet				
Aroclor 1262	ND	0.02	mg/kg wet				
Aroclor 1262 [2C]	ND	0.02	mg/kg wet				
Aroclor 1268	ND	0.02	mg/kg wet				
Aroclor 1268 [2C]	ND	0.02	mg/kg wet				
Surrogate: Decachlorobiphenyl	0.0206		mg/kg wet	0.02500	82	30-150	
Surrogate: Decachlorobiphenyl [2C]	0.0253		mg/kg wet	0.02500	101	30-150	
Surrogate: Tetrachloro-m-xylene	0.0228		mg/kg wet	0.02500	91	30-150	
Surrogate: Tetrachloro-m-xylene [2C]	0.0274		mg/kg wet	0.02500	110	30-150	
LCS							
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000	95	40-140	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000	100	40-140	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000	88	40-140	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000	97	40-140	



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CJ80502 - 3540C										
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0280		mg/kg wet	0.02500		112	30-150			
Surrogate: Tetrachloro-m-xylene	0.0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0271		mg/kg wet	0.02500		108	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140	0.08	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		100	40-140	0.1	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		88	40-140	0.04	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	0.2	30	
Surrageta: Dagechlarabinhanul	0.0225		ma/ka wet	0.02500		90	30-150			
Surrogate. Decachiorobiphenyi	0.0276		ma/ka wet	0.02500		111	30-150			
Surrogate: Decachiorophenyi [2C]	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0270		mg/kg wet	0.02500		108	30-150			
Batch (180913 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Currente Deserblandi i i	0 0221		ma/ka wet	0.02500		88	30-150			
Surrogate: DecachloroDiphenyl	0.0221		ma/ka wet	0.02500		93	30-150			
Surrogate: Decachiorourphenyl [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m sulono [20]	0.0250		mg/ka wet	0.02500		100	30-150			
			5, -9							
Aroclor 1016	0.5	0.02	ma/ka wet	0.5000		102	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		103	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		47	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		103	40-140			
	0.5	0.02	mg/kg wet	0.5000		103	10-140			

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch C180913 - 3540C										
Surrogate: Decachlorobiphenyl	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0228		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		107	40-140	5	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		107	40-140	4	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		98	40-140	6	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		108	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0221		mg/kg wet	0.02500		89	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0244		mg/kg wet	0.02500		98	30-150			
Surrogate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
В	Present in Method Blank (B).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	
F/V	Final volume
Ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDI	Estimated Detection Limit

EDL Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810171

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1810171	
Shipped/Delivered Via: ESS Courier	Date Received: 10/4/2018 Project Due Date: 10/12/2018 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM?	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / NA
5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time?	Yes No
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes No Yes / No / NA
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes No a. Was there a need to contact the client? Yes No Who was contacted? Date:) Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274419	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274418	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274417	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	274416	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274415	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	274414	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	274413	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	274412	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	274411	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	274410	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	274409	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	274408	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	274407	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	274406	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	274405	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
16	274404	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
17	274403	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	274402	Yes	NA	Yes	4 oz Jar - Unpres	NP	
19	274401	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
20	274400	Yes	NA	Yes	4 oz. Jar - Unpres	NP	



ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco	Engineers, Scientists & Surv -	KPB/TB/MM	ESS Project ID:	1810171
Are all necessari	ters attached?	(Yes) No	Date Received:	10/4/2018
Are all necessary	allached.	U.	11 000	_
Completed	it.	Date & Time:	OMIS ZIT	7
Reviewed			alulir	2-Jun
By: Delivered				<u> </u>
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01	10/1/2018	9:05 a.m.	Grab	Solid	F	PS-01		x	Ň	х	x						1			
02	10/1/2018	9:20 a.m.	Grab	Solid	F	PS-02		x	x	x	x				\square	+	╀		-	
03	10/1/2018	9:45 a.m.	Grab	Solid	F	×S-03		x	х	х	x		1-	1			+			
04	10/1/2018	10:05 a.m.	Grab	Solid	P	2S-04		х	х	х	x						+		╉	
05	10/1/2018	10:25 a.m.	Grab	Solid	P		х	х	х	x	-			H	-	+	┞━╂	+	-	
06	10/1/2018	10:40 a.m.	Grab	Solid	P		х	x	x	x	1		-			+	┟─┼	-		
07	10/1/2018	10:55 a.m.	Grab	Solid	P	°S-07		х	x	х	x					+	+		+	
08	10/1/2018	11:10 a.m.	Grab	Solid	. P	°S-08		х	X	x	x	-		\uparrow		-	+		+	
09	10/1/2018	11:25 a.m.	Grab	Solid	P	°S-09		х	x	х	x					+	1-		+	
10	10/1/2018	11:40 a.m.	Grab	Solid	P	S-10		x	x	x	x		+			+			╈	
Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle C	C-Cubitainer G - Glass O-C	Other P-Poly S-Ster	ile V-Vial	AG	AG	AG	AG		-			-		+		-+
Conta	iner Volume:	1-100 mL 2-	2.5 gal 3-250 mL	. 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	z 9-4 oz 10-8 oz	11-Other*	9	9	9	9								\pm	
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaC	DH 9-NH4CI 10-DI H2O	11-Other*	1	1	1	1									
		laboration	ulles Only		Numbe	er of Containers per S	Sample:	1	1	1	1									
Coolor	Drocont	Laboratory	Ose Only		Sampled by : ACC/MJI															
Coole	Fiesent.				Comments:	Please spe	cify "Othe	r" pre	er	vativ	e and	cont	ainers	s type	is in th	nis spa	ace			
Seals		······		National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight																
Cooler 1e	emperature:	1.8+3.2	CICEIL	<u> </u>		-							1							
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	Coneco En	mpany Name nineers and Sci	ientists	Project # 5675 F	Project Nan Pawtucket 1 Control House	ne 6 Thornton Ave									1 1		- i			
	Co	ntact Person			Address											ľ				
	1	Mark Zoller			4 First Street	56 1	- Si													
	Bridgewate	er		tate MA	Zíp Code 02324	PO # 5675 F	Ana			E	E.									
7	Felephone Nu	mber	FAX	lumber	Email Addre	ess	1	82	g	ій ф	Ē						1			
	508-697-31	91			jaevazalis, mzoller,kloftus	s@coneco.com		s 80	Ľĕ	S	ਤ									
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam	ple ID		PCB	Total	Total	Total									
11	10/1/2018	11:55 a.m.	Grab	Solid	PS	5-11		х	х	х	x									
12	10/1/2018	12:10 p.m.	Grab	Solid	PS	5-12		х	x	х	x									
13	10/1/2018	12:25 p.m.	Grab	Solid	PS	5-13		х	х	х	x									
14	10/1/2018	12:40 p.m.	Grab	Solid	PS	S-14		х	х	х	x									
15	10/1/2018	12:55 p.m.	Grab	Solid	PS		x	х	x	x										
16	10/1/2018	1:10 p.m.	Grab	Solid	PS		х	х	х	x										
17	10/1/2018	1:25 p.m.	Grab	Solid	PS	i-17		х	х	х	x									
18	10/1/2018	1:40 p.m.	Grab	Solid	PS	-18		X	х	х	х									
19	10/1/2018	1:55 p.m.	Grab	Solid	PS	-19		x	х	х	x									
20	10/1/2018	2:10 p.m.	Grab	Solid	PS	-20		х	х	х	x									
Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer J-Jar O-Othe	er P-Poly S-Ste	rile V-Vial	AG	AG	AG	AG							_		
Conta	ainer Volume:	1-100 mL 2-	-2.5 gal 3-250 mL	. 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9	9	9	9								\square	
Prese	rvation Code:	1-Non Preserved	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	AeOH 7-Na2S2O3 8-ZnAce, NaOH	9-NH4CI 10-DI H2O	11-Other*	1	1	1	1	_	-					4_	┢╾┥	
			<u>.</u>			of Containers per	Sample:	1	1	1	1									
		Laboratory	y Use Only		Sampled by : ACC/MJM/I	DCK														
Cooler	r Present:	$\underline{\checkmark}$			Comments: Please specify "Other" preservative and containers types in this space															
Seal	s Intact:			National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight																
Cooler T	emperature:	1-8+3.2	CILE ZL																	
Re	elinquished by:	(Signature, Da	ite & Time)	Received By: (Signature, Date & Time)	Relinquished By	: (Signature	, Dat	e & 1	lime)			Rece	ived	By: (S	Signat	ure, D)ate &	Time)
Anne	<u>r C. Cum</u>	plell 12/	4/18 12:Bpr	RCals	10/4/18 1330	RCali	5 10/4	112	یز (<u>543</u>	; (\mathbb{N}^{\sim}	<u>~</u>	10	Чl	4	2	1	
	linquished by!	(Signature, Da	ite & Time)	Received By: (Received By: (Signature, Date & Time) Relinquished By:					'ime)			Rece	ived	By: (\$	signat	ure, C	ate &	Time)
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810172

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:43 pm, Oct 12, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810172-01	PS-21	Solid	6010C, 8082A
1810172-02	PS-22	Solid	6010C, 8082A
1810172-03	PS-23	Solid	6010C, 8082A
1810172-04	PS-24	Solid	6010C, 8082A
1810172-05	PS-25	Solid	6010C, 8082A
1810172-06	PS-26	Solid	6010C, 8082A
1810172-07	PS-27	Solid	6010C, 8082A
1810172-08	PS-28	Solid	6010C, 8082A
1810172-09	PS-29	Solid	6010C, 8082A
1810172-10	PS-30	Solid	6010C, 8082A
1810172-11	PS-31	Solid	6010C, 8082A
1810172-12	PS-32	Solid	6010C, 8082A
1810172-13	PS-33	Solid	6010C, 8082A
1810172-14	PS-34	Solid	6010C, 8082A
1810172-15	PS-35	Solid	6010C, 8082A
1810172-16	PS-36	Solid	6010C, 8082A
1810172-17	PS-37	Solid	6010C, 8082A
1810172-18	PS-38	Solid	6010C, 8082A
1810172-19	PS-39	Solid	6010C, 8082A
1810172-20	PS-40	Solid	6010C, 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1810172-01	<u>Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).</u>
	Decachlorobiphenyl (973% @ 30-150%), Decachlorobiphenyl [2C] (909% @ 30-150%)
1810172-03	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (285% @ 30-150%), Decachlorobiphenyl [2C] (231% @ 30-150%)
1810172-13	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (305% @ 30-150%), Decachlorobiphenyl [2C] (257% @ 30-150%)
1810172-19	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
Total Metals	

CJ80964-BS1	Blank Spike recovery is below lower control limit (B-).
	Cadmium (80% @ 84-116%)
CJ80964-BSD1	Blank Spike recovery is below lower control limit (B-).
	Cadmium (80% @ 84-116%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-21 Date Sampled: 10/02/18 09:05 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-01 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	10.3 (1.96)		6010C		1	KJK	10/11/18 1:15	0.51	100	CJ80964
Chromium	9400 (78.4)		6010C		20	KJK	10/11/18 0:45	0.51	100	CJ80964
Lead	60400 (392)		6010C		20	KJK	10/11/18 0:45	0.51	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-21 Date Sampled: 10/02/18 09:05 Percent Solids: N/A Initial Volume: 10.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-01 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Se	quence Batch
Aroclor 1016	ND (0.05)		8082A		1	10/09/18 22:56	CJ80503
Aroclor 1221	ND (0.05)		8082A		1	10/09/18 22:56	CJ80503
Aroclor 1232	ND (0.05)		8082A		1	10/09/18 22:56	CJ80503
Aroclor 1242	ND (0.05)		8082A		1	10/09/18 22:56	CJ80503
Aroclor 1248	ND (0.05)		8082A		1	10/09/18 22:56	CJ80503
Aroclor 1254 [2C]	3.2 (0.2)		8082A		5	10/09/18 23:16	CJ80503
Aroclor 1260 [2C]	4.9 (0.2)		8082A		5	10/09/18 23:16	CJ80503
Aroclor 1262	ND (0.05)		8082A		1	10/09/18 22:56	CJ80503
Aroclor 1268 [2C]	1.1 (0.05)		8082A		1	10/09/18 22:56	CJ80503
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		973 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		909 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		<i>98 %</i>		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-22 Date Sampled: 10/02/18 09:20 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-02 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	18.4 (2.00)		6010C		1	KJK	10/11/18 1:21	0.5	100	CJ80964
Chromium	4880 (80.0)		6010C		20	KJK	10/11/18 0:49	0.5	100	CJ80964
Lead	32100 (400)		6010C		20	KJK	10/11/18 0:49	0.5	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-22 Date Sampled: 10/02/18 09:20 Percent Solids: N/A Initial Volume: 1.5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-02 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1221	ND (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1232	ND (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1242	ND (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1248	ND (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1254	0.9 (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1260 [2C]	1.1 (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1262	ND (0.3)		8082A		1	10/09/18 23:35		CJ80503
Aroclor 1268 [2C]	ND (0.3)		8082A		1	10/09/18 23:35		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		51 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		40 %		30-150				
Surrogate: Tetrachloro-m-xylene		48 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		49 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-23 Date Sampled: 10/02/18 09:45 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-03 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	10.2 (1.69)		6010C		1	KJK	10/11/18 1:26	0.59	100	CJ80964
Chromium	5890 (67.8)		6010C		20	KJK	10/11/18 0:54	0.59	100	CJ80964
Lead	32900 (339)		6010C		20	KJK	10/11/18 0:54	0.59	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-23 Date Sampled: 10/02/18 09:45 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-03 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1221	ND (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1232	ND (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1242	0.4 (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1248	ND (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1254	1.8 (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1260 [2C]	2.4 (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1262	ND (0.1)		8082A		1	10/09/18 23:54		CJ80503
Aroclor 1268 [2C]	0.5 (0.1)		8082A		1	10/09/18 23:54		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		285 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		231 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-24 Date Sampled: 10/02/18 10:05 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-04 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyst	Analyzed	I/V	F/V	Batch
Cadmium	140 (39.2)		6010C		20	KJK	10/11/18 0:58	0.51	100	CJ80964
Chromium	8.48 (3.92)		6010C		1	KJK	10/11/18 1:32	0.51	100	CJ80964
Lead	77900 (392)		6010C		20	KJK	10/11/18 0:58	0.51	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-24 Date Sampled: 10/02/18 10:05 Percent Solids: N/A Initial Volume: 10.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-04 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1254 [2C]	1.1 (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1260 [2C]	0.9 (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 22:23		CJ80503
Aroclor 1268	0.3 (0.05)		8082A		1	10/08/18 22:23		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>96 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-25 Date Sampled: 10/02/18 10:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-05 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	10.3 (1.85)		6010C		1	KJK	10/11/18 1:38	0.54	100	CJ80964
Chromium	8390 (74.1)		6010C		20	KJK	10/11/18 1:48	0.54	100	CJ80964
Lead	62700 (370)		6010C		20	KJK	10/11/18 1:48	0.54	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-25 Date Sampled: 10/02/18 10:25 Percent Solids: N/A Initial Volume: 7.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-05 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1221	ND (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1232	ND (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1242	ND (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1248	ND (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1254	1.9 (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1260	1.7 (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1262	ND (0.07)		8082A		1	10/08/18 22:42		CJ80503
Aroclor 1268	0.5 (0.07)		8082A		1	10/08/18 22:42		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		121 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		95 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		100 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-26 Date Sampled: 10/02/18 10:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-06 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	9.84 (1.96)		6010C		1	KJK	10/11/18 1:42	0.51	100	CJ80964
Chromium	9060 (78.4)		6010C		20	KJK	10/11/18 1:52	0.51	100	CJ80964
Lead	44600 (392)		6010C		20	KJK	10/11/18 1:52	0.51	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-26 Date Sampled: 10/02/18 10:40 Percent Solids: N/A Initial Volume: 1.53 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-06 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed S	Sequence	Batch
Aroclor 1016	ND (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1221	ND (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1232	ND (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1242	ND (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1248	ND (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1254 [2C]	3.5 (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1260 [2C]	4.3 (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1262	ND (0.3)		8082A		1	10/08/18 23:01		CJ80503
Aroclor 1268	1.4 (0.3)		8082A		1	10/08/18 23:01		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		127 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>99 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-27 Date Sampled: 10/02/18 10:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-07 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	7.39 (3.33)		6010C		1	KJK	10/11/18 2:18	0.3	100	CJ80964
Chromium	4150 (133)		6010C		20	KJK	10/11/18 1:56	0.3	100	CJ80964
Lead	23600 (667)		6010C		20	KJK	10/11/18 1:56	0.3	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-27 Date Sampled: 10/02/18 10:55 Percent Solids: N/A Initial Volume: 0.61 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-07 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1221	ND (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1232	ND (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1242	ND (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1248	ND (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1254	3.5 (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1260 [2C]	3.2 (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1262	ND (0.8)		8082A		1	10/08/18 23:21		CJ80503
Aroclor 1268 [2C]	1.0 (0.8)		8082A		1	10/08/18 23:21		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		110 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		103 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-28 Date Sampled: 10/02/18 11:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-08 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	ND (45.5)		6010C		1	KJK	10/11/18 2:23	0.022	100	CJ80964
Chromium	11400 (90.9)		6010C		1	KJK	10/11/18 2:23	0.022	100	CJ80964
Lead	64100 (455)		6010C		1	KJK	10/11/18 2:23	0.022	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-28 Date Sampled: 10/02/18 11:10 Percent Solids: N/A Initial Volume: 0.022 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-08 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1221	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1232	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1242	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1248	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1254	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1260	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1262	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
Aroclor 1268	ND (22.7)		8082A		1	10/10/18 12:02		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-29 Date Sampled: 10/02/18 11:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-09 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	6.52 (5.26)		6010C		1	KJK	10/11/18 2:27	0.19	100	CJ80964
Chromium	10400 (10.5)		6010C		1	KJK	10/11/18 2:27	0.19	100	CJ80964
Lead	66100 (1050)		6010C		20	KJK	10/11/18 2:47	0.19	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-29 Date Sampled: 10/02/18 11:25 Percent Solids: N/A Initial Volume: 0.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-09 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1221	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1232	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1242	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1248	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1254 [2C]	4.8 (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1260 [2C]	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1262	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
Aroclor 1268	ND (2.6)		8082A		1	10/10/18 12:20		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-30 Date Sampled: 10/02/18 11:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-10 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyst	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	7.60 (4.35)		6010C		1	KJK	10/11/18 2:32	0.23	100	CJ80964
Chromium	57.2 (8.70)		6010C		1	KJK	10/11/18 2:32	0.23	100	CJ80964
Lead	615 (43.5)		6010C		1	KJK	10/11/18 2:32	0.23	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-30 Date Sampled: 10/02/18 11:40 Percent Solids: N/A Initial Volume: 0.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-10 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 16:22

<u>Analyte</u>	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyzed	Sequence Batch
Aroclor 1016	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1221	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1232	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1242	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1248	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1254 [2C]	3.2 (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1260	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1262	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
Aroclor 1268	ND (2.2)		8082A		1	10/10/18 12:39	CJ80912
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		80 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150			
Surrogate: Tetrachloro-m-xylene		71 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-31 Date Sampled: 10/02/18 11:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-11 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	ND (2.30)		6010C		1	KJK	10/11/18 2:37	0.435	100	CJ80964
Chromium	27.2 (4.60)		6010C		1	KJK	10/11/18 2:37	0.435	100	CJ80964
Lead	69.6 (23.0)		6010C		1	KJK	10/11/18 2:37	0.435	100	CJ80964


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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-31 Date Sampled: 10/02/18 11:55 Percent Solids: N/A Initial Volume: 0.435 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-11 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 16:22

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Se</u>	quence <u>Batch</u>
Aroclor 1016	ND (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1221	ND (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1232	ND (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1242	ND (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1248	ND (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1254 [2C]	2.9 (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1260	2.4 (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1262	ND (1.1)		8082A		1	10/10/18 12:58	CJ80912
Aroclor 1268	ND (1.1)		8082A		1	10/10/18 12:58	CJ80912
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		82 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150			
Surrogate: Tetrachloro-m-xylene		77 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-32 Date Sampled: 10/02/18 12:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-12 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	<u>F/V</u>	Batch
Cadmium	133 (1.85)		6010C		1	KJK	10/11/18 2:41	0.54	100	CJ80964
Chromium	2330 (3.70)		6010C		1	KJK	10/11/18 2:41	0.54	100	CJ80964
Lead	30900 (370)		6010C		20	KJK	10/11/18 3:00	0.54	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-32 Date Sampled: 10/02/18 12:10 Percent Solids: N/A Initial Volume: 10.4 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-12 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 23:39		CJ80503
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 23:39		CJ80503
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 23:39		CJ80503
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 23:39		CJ80503
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 23:39		CJ80503
Aroclor 1254	1.2 (0.05)		8082A		1	10/08/18 23:39		CJ80503
Aroclor 1260 [2C]	3.0 (0.2)		8082A		5	10/10/18 0:14		CJ80503
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 23:39		CJ80503
Aroclor 1268	0.9 (0.05)		8082A		1	10/08/18 23:39		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		115 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-33 Date Sampled: 10/02/18 12:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-13 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	139 (1.96)		6010C		1	KJK	10/11/18 3:17	0.51	100	CJ80964
Chromium	4210 (3.92)		6010C		1	KJK	10/11/18 3:17	0.51	100	CJ80964
Lead	44700 (392)		6010C		20	KJK	10/11/18 3:52	0.51	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-33 Date Sampled: 10/02/18 12:25 Percent Solids: N/A Initial Volume: 10.4 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-13 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/08/18 23:59		CJ80503
Aroclor 1221	ND (0.05)		8082A		1	10/08/18 23:59		CJ80503
Aroclor 1232	ND (0.05)		8082A		1	10/08/18 23:59		CJ80503
Aroclor 1242	ND (0.05)		8082A		1	10/08/18 23:59		CJ80503
Aroclor 1248	ND (0.05)		8082A		1	10/08/18 23:59		CJ80503
Aroclor 1254	1.7 (0.05)		8082A		1	10/08/18 23:59		CJ80503
Aroclor 1260 [2C]	5.0 (0.2)		8082A		5	10/10/18 0:33		CJ80503
Aroclor 1262	ND (0.05)		8082A		1	10/08/18 23:59		CJ80503
Aroclor 1268	2.2 (0.2)		8082A		5	10/10/18 0:33		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		305 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		257 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-34 Date Sampled: 10/02/18 12:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-14 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	9.44 (1.96)		6010C		1	KJK	10/11/18 3:23	0.51	100	CJ80964
Chromium	10400 (78.4)		6010C		20	KJK	10/11/18 3:56	0.51	100	CJ80964
Lead	47200 (392)		6010C		20	KJK	10/11/18 3:56	0.51	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-34 Date Sampled: 10/02/18 12:40 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-14 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/09/18 0:18		CJ80503
Aroclor 1221	ND (0.05)		8082A		1	10/09/18 0:18		CJ80503
Aroclor 1232	ND (0.05)		8082A		1	10/09/18 0:18		CJ80503
Aroclor 1242	ND (0.05)		8082A		1	10/09/18 0:18		CJ80503
Aroclor 1248	ND (0.05)		8082A		1	10/09/18 0:18		CJ80503
Aroclor 1254 [2C]	3.1 (0.5)		8082A		10	10/10/18 0:52		CJ80503
Aroclor 1260 [2C]	7.0 (0.5)		8082A		10	10/10/18 0:52		CJ80503
Aroclor 1262	ND (0.05)		8082A		1	10/09/18 0:18		CJ80503
Aroclor 1268 [2C]	1.8 (0.05)		8082A		1	10/09/18 0:18		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		123 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		100 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-35 Date Sampled: 10/03/18 09:05 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-15 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	38.5 (1.85)		6010C		1	KJK	10/11/18 3:29	0.54	100	CJ80964
Chromium	3460 (3.70)		6010C		1	KJK	10/11/18 3:29	0.54	100	CJ80964
Lead	43500 (370)		6010C		20	KJK	10/11/18 4:01	0.54	100	CJ80964



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-35 Date Sampled: 10/03/18 09:05 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-15 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
Aroclor 1221	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
Aroclor 1232	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
Aroclor 1242	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
Aroclor 1248	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
Aroclor 1254	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
Aroclor 1260	11.8 (0.5)		8082A		10	10/10/18 1:11		CJ80503
Aroclor 1262	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
Aroclor 1268	ND (0.05)		8082A		1	10/09/18 0:37		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-36 Date Sampled: 10/03/18 09:20 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-16 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	80.5 (1.96)		6010C		1	KJK	10/11/18 3:35	0.51	100	CJ80964
Chromium	14.0 (3.92)		6010C		1	KJK	10/11/18 3:35	0.51	100	CJ80964
Lead	7880 (19.6)		6010C		1	KJK	10/11/18 3:35	0.51	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-36 Date Sampled: 10/03/18 09:20 Percent Solids: N/A Initial Volume: 5.99 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-16 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
Aroclor 1221	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
Aroclor 1232	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
Aroclor 1242	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
Aroclor 1248	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
Aroclor 1254	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
Aroclor 1260 [2C]	9.5 (0.4)		8082A		5	10/10/18 1:31		CJ80503
Aroclor 1262	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
Aroclor 1268	ND (0.08)		8082A		1	10/09/18 0:56		CJ80503
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		58 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		47 %		30-150				
Surrogate: Tetrachloro-m-xylene		45 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>49 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-37 Date Sampled: 10/03/18 09:45 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-17 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	ND (3.23)		6010C		1	KJK	10/11/18 3:40	0.31	100	CJ80964
Chromium	23600 (129)		6010C		20	KJK	10/11/18 4:44	0.31	100	CJ80964
Lead	101000 (645)		6010C		20	KJK	10/11/18 4:44	0.31	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-37 Date Sampled: 10/03/18 09:45 Percent Solids: N/A Initial Volume: 0.45 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-17 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	e <u>Batch</u>
Aroclor 1016	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1221	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1232	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1242	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1248	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1254	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1260	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1262	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
Aroclor 1268	ND (1.1)		8082A		1	10/09/18 1:15	CJ80503
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		55 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		42 %		30-150			
Surrogate: Tetrachloro-m-xylene		50 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		56 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-38 Date Sampled: 10/03/18 10:05 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-18 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	11.9 (2.90)		6010C		1	KJK	10/11/18 3:46	0.345	100	CJ80964
Chromium	2530 (5.80)		6010C		1	KJK	10/11/18 3:46	0.345	100	CJ80964
Lead	9880 (29.0)		6010C		1	KJK	10/11/18 3:46	0.345	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-38 Date Sampled: 10/03/18 10:05 Percent Solids: N/A Initial Volume: 0.345 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-18 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1221	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1232	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1242	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1248	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1254	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1260	5.4 (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1262	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
Aroclor 1268	ND (1.4)		8082A		1	10/10/18 13:17		CJ80912
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		47 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		42 %		30-150				
Surrogate: Tetrachloro-m-xylene		42 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>49 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-39 Date Sampled: 10/03/18 10:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-19 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	9.27 (4.00)		6010C		1	KJK	10/11/18 4:24	0.25	100	CJ80964
Chromium	3930 (8.00)		6010C		1	KJK	10/11/18 4:24	0.25	100	CJ80964
Lead	98300 (800)		6010C		20	KJK	10/11/18 4:53	0.25	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-39 Date Sampled: 10/03/18 10:25 Percent Solids: N/A Initial Volume: 2.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-19 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequen	<u>ce</u> <u>Batch</u>
Aroclor 1016	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1221	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1232	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1242	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1248	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1254	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1260	84.0 (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1262	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
Aroclor 1268	ND (4.8)		8082A		20	10/10/18 1:50	CJ80503
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		%	SD	30-150			
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-40 Date Sampled: 10/03/18 10:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-20 Sample Matrix: Solid Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	I/V	<u>F/V</u>	Batch
Cadmium	ND (7.69)		6010C		1	KJK	10/11/18 5:28	0.13	100	CJ80964
Chromium	19900 (15.4)		6010C		1	KJK	10/11/18 5:28	0.13	100	CJ80964
Lead	97200 (1540)		6010C		20	KJK	10/11/18 5:49	0.13	100	CJ80964



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-40 Date Sampled: 10/03/18 10:40 Percent Solids: N/A Initial Volume: 1.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810172 ESS Laboratory Sample ID: 1810172-20 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/5/18 16:25

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Seq	uence <u>Batch</u>
Aroclor 1016	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
Aroclor 1221	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
Aroclor 1232	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
Aroclor 1242	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
Aroclor 1248	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
Aroclor 1254	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
Aroclor 1260	49.8 (2.5)		8082A		5	10/10/18 2:09	CJ80503
Aroclor 1262	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
Aroclor 1268	ND (0.5)		8082A		1	10/09/18 1:53	CJ80503
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		83 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150			
Surrogate: Tetrachloro-m-xylene		67 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



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CERTIFICATE OF ANALYSIS

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Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

Quality Control Data

Analyte	Result	MRI	(Inits	Spike	Source	%RFC	%REC	RPD	RPD Limit	Qualifier
	incount.	, iixe			Result	,uilee	Linito		Lint	Quantici
			i otai Meta	IIS						
atch CJ80964 - 3050B										
Blank										
Cadmium	ND	0.50	mg/kg wet							
hromium	ND	1.00	mg/kg wet							
ead	ND	5.00	mg/kg wet							
cs										
admium	78.8	1.69	mg/kg wet	98.70		80	84-116			B-
hromium	214	3.39	mg/kg wet	240.0		89	85-115			
ead	237	16.9	mg/kg wet	276.0		86	84-116			
.CS Dup										
and and a second	78.9	1.79	ma/ka wet	98.70		80	84-116	0.1	20	B-
Chromium	212	3.57	mg/kg wet	240.0		88	85-115	0.9	20	
ead	235	17.9	mg/ka wet	276.0		85	84-116	0.6	20	
20602000			5,5							
ererence ead	3010	20 0	ma/ka wet	4400		87	82-112			
	2210	20.0		UCTT-		07	00-110			
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
atch (180503 - 3540)										
lank										
roclor 1016	ND	0.02	ma/ka wet							
roclor 1016 [2C]	ND	0.02	ma/ka wet							
vicclor 1221	ND	0.02	mg/kg wet							
roclor 1221 [2C]	ND	0.02	ma/ka wet							
roclor 1232	ND	0.02	ma/ka wet							
roclor 1232 [2C]	ND	0.02	ma/ka wet							
aroclor 1242	ND	0.02	mg/kg wet							
aroclor 1242 [2C]	ND	0.02	mg/kg wet							
arcolor 1248	ND	0.02	mg/kg wet							
roclor 1248 [2C]	ND	0.02	mg/kg wet							
10000 1240 [20]	ND	0.02	mg/kg wet							
10001 1254	ND	0.02	mg/kg wet							
roclor 1254 [2C]	ND	0.02	mg/kg wet							
10000 1200	ND	0.02	mg/kg wet							
roclor 1260 [2C]	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
NOCION 1268	ND	0.02	mg/kg wet							
ALOCIOL 1768 [5C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0281		mg/kg wet	0.02500		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0231		mg/kg wet	0.02500		<i>93</i>	30-150			
Gurrogate: Tetrachloro-m-xylene [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
 .cs										
vroclor 1016	0.5	0.05	mg/kg wet	0.5000		92	40-140			
vroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		93	40-140			
185 Frances Aver	nue, Cranston, RI 029	10-2211 Dependabil	Tel: 401-461-71 ity • Q	81 Fa uality ♦	x: 401-461 Servic	-4486 e	http://www	v.ESSLaboı	atory.com	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		,			- /					
Batch CJ80503 - 3540C										
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobinhenvl	0.0288		mg/kg wet	0.02500		115	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0211		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0241		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0244		mg/kg wet	0.02500		98	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		93	40-140	0.8	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		94	40-140	1	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		92	40-140	1	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		92	40-140	1	30	
	0.0201		mallia	0.02500		110	20 150			
Surrogate: Decachlorobiphenyl	0.0291		mg/kg wet	0.02500		110 86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0215		mg/kg wet	0.02300		00 07	30-150			
Surrogate: Letrachloro-m-xylene	0.0241		mg/kg wet	0.02500		98	30-150			
Surroyate: Tetrachioro-m-xylene [2C]	0.0211		ing kg wee	0.02000		20	50 150			
Batch CJ80912 - 3540C										
Blank		A								
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Arocior 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
Aroclar 1260 [2C]	ND	0.02	mg/kg wet							
		0.02	mg/kg wet							
Aroclar 1262		0.02	mg/kg wet							
Aroclar 1268		0.02	mg/kg wet							
Araclar 1268 [2C]		0.02	mg/kg wet							
	טא	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0199		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0184		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0180		mg/kg wet	0.02500		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		102	40-140			

Dependability + Quality

Tel: 401-461-7181

Fax: 401-461-4486

Service

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CJ80912 - 3540C										
Aroclor 1260	0.6	0.02	mg/kg wet	0.5000		110	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Surrogate: Decachlorobiphenyl	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0211		mg/kg wet	0.02500		84	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	5	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		106	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0211		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0191		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xylene	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0198		mg/kg wet	0.02500		79	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
B-	Blank Spike recovery is below lower control limit (B-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810172

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1810172	
Shipped/Delivered Via: ESS Courier	Date Received: 10/4/2018 Project Due Date: 10/12/2018	
	Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM?	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes Temp: 3.2 Iced with: Ice	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / HA
5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time?	Yes / No
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes No/NA
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
A		<u> </u>
14. Was there a need to contact Project Manager? Yes / No a. Was there a need to contact the client? Yes / No Who was contacted? Date:	Time: By:	_

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274439	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274438	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274437	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	274436	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274435	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	274434	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	274433	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	274432	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	274431	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	274430	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	274429	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	274428	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	274427	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	274426	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	274425	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
16	274424	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
17	274423	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	274422	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
19	274421	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
20	274420	Yes	NA	Yes	4 oz. Jar - Unpres	NP	



ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	A	ESS Project ID:	<u>1810172</u> 10/4/2018
Are all necessary stickers attached?	Yes)/No	. 1	
Completed By:	Date & Time:	10/4/18	2155
Reviewed By:	Date & Time:	6/4/0	8 2210
Delivered By:		10/4	18 2210

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	Col	npany Name		Project #	Project Na	me													
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01	10/2/2018	9:05 a.m.	Grab	Solid	P	S-21		х	х	х	Х								
02	10/2/2018	9:20 a.m.	Grab	Solid	PS	S-22		х	х	х	х	_							
03	10/2/2018	9:45 a.m.	Grab	Solid	P	S-23		х	х	х	х							_	
04	10/2/2018	10:05 a.m.	Grab	Solid	P	5-24		х	х	х	х								
05	10/2/2018	10:25 a.m.	Grab	Solid	P	8-25		х	х	х	x								
06	10/2/2018	10:40 a.m.	Grab	Solid	P		х	х	х	х									
07	10/2/2018	10:55 a.m.	Grab	Solid	P	5-27		х	х	х	х								
08	10/2/2018	11:10 a.m.	Grab	Solid	pç	5-28		х	х	x	х								
09	10/2/2018	11:25 a.m.	Grab	Solid	P	S-29		х	х	х	х								
10	10/2/2018	11:40 a.m.	Grab	Solid	PS	S-30		х	х	х	х								
Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle C	C-Cubitainer G - Glass O-O	ther P-Poly S-Ster	ile V-Vial	AG	AG	AG	AG				_			\bot	
Conta	iner Volume:	1-100 mL 2-	-2.5 gai 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9	9	9	9								
Prese	vation Code:	1-Non Preserved	I 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaO	H 9-NH4CI 10-DI H2O	11-Other	1	1	1	1								
					Numbe	r of Containers per	Sample:	1	1	1	1							<u> </u>	
		Laboratory	y Use Only		Sampled by : ACC/MJN	<i>I</i> /DCK													
Cooler	Present:				Comments:	Please spe	cify "Othe	r" pr	eser	vativ	e anc	l conta	iners (ypes	in this	space	9		
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ID	Date	Time	Sample Type	Sample Matrix	Sample ID						CBS	otal	otal	otal									
11	10/2/2018	11:55 a.m.	Grab	Solid			P	'S-31			X	x	x	x		-	+			+-	╀		
12	10/2/2019	12:10 p.m.	Grab	Solid	1		P	S-32	<u></u>		x	x	x	x				-	-+	+	╉─	┼╼┦	
13	10/2/2020	12:25 p.m.	Grab	Solid			P	S-33			x	x	x	x	-+	+			-+	┾	+	┝╾┥	
14	10/2/2021	12:40 p.m.	Grab	Solid	PS-34						x	x	x	x	+		╀	┼╾┤		╀		┝─┤	
15	10/3/2018	9:05 a.m.	Grab	Solid	PS-35						x	x	x	x			+	+			╋┙	╞─┤	
16	10/3/2019	9:20 a.m.	Grab	Solid	PS-36						x	x	x	x					+		┼╼┥		
17	10/3/2020	9:45 a.m.	Grab	Solid	PS-37						x	х	x	x	╋				+	+-	+	┢╼╌╂	
18	10/3/2021	10:05 a.m.	Grab	Solid		<u>, , , , , , , , , , , , , , , , , , , </u>	P	S-38	_ i <u>,,</u>		x	х	х	x			1-		+	+	+	<u>;</u> ₽	
19	10/3/2022	10:25 a.m.	Grab	Solid		<u>-</u>	P	S-39			х	x	x	x	\uparrow	+	+			+	┼┤		
20	10/3/2023	10:40 a.m.	Grab	Solid			PS	5-40			x	х	x	x			\uparrow		+	+	╞╾┨		
Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer	r J-Jar (O-Oth	ter P-I	Poly S-Ster	ile V-Vial	AG.	AG	AG	AG				┝─┼	+	+	╄╼┥	\rightarrow	
Conta	iner Volume:	1-100 mL 2-	2.5 gal 3-250 mL	4-300 mL 5-500) mL 6-1L	7-VOA 8-	-2 oz	9-4 02	z 10-8 oz	11-Other*	9	9	9	9		-	1				+-+	\rightarrow	
- Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	MeOH 7-Na2S2	203 8-ZnAce,	, NaOH	9-NH4	CI 10-DI H2O	11-Other*	1	1	1	1						1	\square		
		Laboratory	Use Only			Nu	Imper	r of Con	tainers per	Sample:	1	1	1	1									
Coolor	Drocomt	Laboratory	Use Only		Sampled I	by: ACC/	MJM/	DCK	_														
Coole	- leselit.	$\overline{}$			Commen	ts:			Please spe	cify "Othe	r" pr	eser	vativ	e and	d cont	ainer	s type	es in t	his sp	Jace			
Seals			_		National Grid	I Project, Us∉	e Mar	nual Sox	hlet Extractio	n per EPA	Meth	od 3	540,	Repo	ort Dry	Weig	iht						1
Cooler 16	emperature:	1.8+3.2	<u>CILEIC</u>											•	•								
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810173

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 2:13 pm, Oct 17, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810173

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810173-01	PS-41	Soil	6010C, 8082A
1810173-02	PS-42	Soil	6010C, 8082A
1810173-03	PS-43	Soil	6010C, 8082A
1810173-04	PS-44	Soil	6010C, 8082A
1810173-05	PS-45	Soil	6010C, 8082A
1810173-06	PS-46	Soil	8082A
1810173-07	PS-47	Soil	8082A
1810173-08	PS-48	Soil	8082A
1810173-09	PS-49	Soil	6010C, 8082A
1810173-10	PS-50	Soil	6010C, 8082A
1810173-11	PS-51	Soil	6010C, 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810173

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1810173-03	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (445% @ 30-150%), Decachlorobiphenyl [2C] (429% @ 30-150%)
1810173-07	Surrogate recovery(ies) outside of criteria. Insufficient sample volume for re-extraction (SI).
	Decachlorobiphenyl (27% @ 30-150%), Decachlorobiphenyl [2C] (26% @ 30-150%)
1810173-10	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (176% @ 30-150%), Decachlorobiphenyl [2C] (171% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810173

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-41 Date Sampled: 10/03/18 10:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-01 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	17.2 (1.69)		6010C		1	KJK	10/09/18 19:51	0.59	100	CJ80945
Chromium	413 (3.39)		6010C		1	KJK	10/09/18 19:51	0.59	100	CJ80945
Lead	2340 (16.9)		6010C		1	KJK	10/09/18 19:51	0.59	100	CJ80945



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-41 Date Sampled: 10/03/18 10:55 Percent Solids: N/A Initial Volume: 11.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-01 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
Aroclor 1254	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
Aroclor 1260	8.3 (0.5)		8082A		10	10/10/18 19:59		CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
Aroclor 1268	ND (0.05)		8082A		1	10/10/18 0:49		CJ80604
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		51 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		53 %		30-150				
Surrogate: Tetrachloro-m-xylene		45 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		46 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-42 Date Sampled: 10/03/18 11:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-02 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	289 (1.92)		6010C		1	KJK	10/09/18 19:57	0.52	100	CJ80945
Chromium	4.52 (3.85)		6010C		1	KJK	10/09/18 19:57	0.52	100	CJ80945
Lead	403 (19.2)		6010C		1	KJK	10/09/18 19:57	0.52	100	CJ80945


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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-42 Date Sampled: 10/03/18 11:10 Percent Solids: N/A Initial Volume: 10.4 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-02 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 1:09		CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 1:09		CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 1:09		CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 1:09		CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 1:09		CJ80604
Aroclor 1254	1.6 (0.05)		8082A		1	10/10/18 1:09		CJ80604
Aroclor 1260	3.5 (0.2)		8082A		5	10/10/18 20:18		CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 1:09		CJ80604
Aroclor 1268	ND (0.05)		8082A		1	10/10/18 1:09		CJ80604
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-43 Date Sampled: 10/03/18 11:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-03 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	F/V	Batch
Cadmium	76.3 (1.59)		6010C		1	KJK	10/09/18 20:02	0.63	100	CJ80945
Chromium	2870 (3.17)		6010C		1	KJK	10/09/18 20:02	0.63	100	CJ80945
Lead	35900 (317)		6010C		20	KJK	10/10/18 1:30	0.63	100	CJ80945



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-43 Date Sampled: 10/03/18 11:25 Percent Solids: N/A Initial Volume: 10.7 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-03 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1254	1.1 (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1260	1.6 (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 1:28	CJ80604
Aroclor 1268	0.3 (0.05)		8082A		1	10/10/18 1:28	CJ80604
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		445 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		429 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		49 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		56 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-44 Date Sampled: 10/03/18 11:40 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-04 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	67.5 (1.79)		6010C		1	KJK	10/09/18 20:08	0.56	100	CJ80945
Chromium	4750 (3.57)		6010C		1	KJK	10/09/18 20:08	0.56	100	CJ80945
Lead	39500 (357)		6010C		20	KJK	10/10/18 1:49	0.56	100	CJ80945



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-44 Date Sampled: 10/03/18 11:40 Percent Solids: N/A Initial Volume: 10.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-04 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
Aroclor 1254	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
Aroclor 1260	6.5 (0.5)		8082A		10	10/10/18 20:37		CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
Aroclor 1268	ND (0.05)		8082A		1	10/10/18 1:47		CJ80604
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		61 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		62 %		30-150				
Surrogate: Tetrachloro-m-xylene		59 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-45 Date Sampled: 10/03/18 10:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-05 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	<u>Analyst</u>	Analyzed	<u>I/V</u>	<u>F/V</u>	Batch
Cadmium	2.48 (1.61)		6010C		1	KJK	10/09/18 20:14	0.62	100	CJ80945
Chromium	5560 (3.23)		6010C		1	KJK	10/09/18 20:14	0.62	100	CJ80945
Lead	61500 (1610)		6010C		100	KJK	10/10/18 1:55	0.62	100	CJ80945



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-45 Date Sampled: 10/03/18 10:55 Percent Solids: N/A Initial Volume: 10.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-05 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 2:06		CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 2:06		CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 2:06		CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 2:06		CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 2:06		CJ80604
Aroclor 1254	1.6 (0.05)		8082A		1	10/10/18 2:06		CJ80604
Aroclor 1260	3.3 (0.2)		8082A		5	10/10/18 20:56		CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 2:06		CJ80604
Aroclor 1268	ND (0.05)		8082A		1	10/10/18 2:06		CJ80604
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>94 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		103 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-46 Date Sampled: 10/03/18 11:10 Percent Solids: N/A Initial Volume: 4.42 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-06 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	Limit	DF	<u>Analyzed</u> <u>Se</u>	equence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
Aroclor 1260	3.4 (0.6)		8082A		5	10/10/18 21:15		CJ80604
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 2:25		CJ80604
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		<i>75 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-47 Date Sampled: 10/03/18 11:25 Percent Solids: N/A Initial Volume: 0.35 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-07 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	e <u>Batch</u>
Aroclor 1016	ND (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1221	ND (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1232	ND (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1242	ND (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1248	ND (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1254	ND (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1260	11.6 (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1262	ND (1.4)		8082A		1	10/10/18 2:44	CJ80604
Aroclor 1268	5.6 (1.4)		8082A		1	10/10/18 2:44	CJ80604
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		27 %	SI	30-150			
Surrogate: Decachlorobiphenyl [2C]		26 %	SI	30-150			
Surrogate: Tetrachloro-m-xylene		35 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		39 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-48 Date Sampled: 10/03/18 11:40 Percent Solids: N/A Initial Volume: 0.22 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-08 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1221	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1232	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1242	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1248	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1254	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1260 [2C]	2.9 (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1262	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
Aroclor 1268	ND (2.3)		8082A		1	10/10/18 3:03		CJ80604
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-49 Date Sampled: 10/03/18 11:55 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-09 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	19.0 (1.85)		6010C		1	KJK	10/09/18 20:18	0.54	100	CJ80945
Chromium	1050 (3.70)		6010C		1	KJK	10/09/18 20:18	0.54	100	CJ80945
Lead	15700 (185)		6010C		10	KJK	10/10/18 1:59	0.54	100	CJ80945



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-49 Date Sampled: 10/03/18 11:55 Percent Solids: N/A Initial Volume: 10.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-09 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed Seque	nce Batch
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1254	1.0 (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1260	0.9 (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 3:22	CJ80604
Aroclor 1268 [2C]	0.2 (0.05)		8082A		1	10/10/18 3:22	CJ80604
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		45 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		43 %		30-150			
Surrogate: Tetrachloro-m-xylene		40 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		49 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-50 Date Sampled: 10/03/18 12:10 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-10 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyst</u>	Analyzed	I/V	F/V	Batch
Cadmium	18.4 (1.75)		6010C		1	KJK	10/09/18 20:24	0.57	100	CJ80945
Chromium	4400 (3.51)		6010C		1	KJK	10/09/18 20:24	0.57	100	CJ80945
Lead	111000 (1750)		6010C		100	KJK	10/10/18 2:05	0.57	100	CJ80945



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-50 Date Sampled: 10/03/18 12:10 Percent Solids: N/A Initial Volume: 10.3 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-10 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sec	quence <u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 3:42	CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 3:42	CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 3:42	CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 3:42	CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 3:42	CJ80604
Aroclor 1254 [2C]	1.8 (0.05)		8082A		1	10/10/18 3:42	CJ80604
Aroclor 1260 [2C]	3.6 (0.5)		8082A		10	10/10/18 21:35	CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 3:42	CJ80604
Aroclor 1268 [2C]	0.4 (0.05)		8082A		1	10/10/18 3:42	CJ80604
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		176 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		171 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		64 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-51 Date Sampled: 10/03/18 12:25 Percent Solids: N/A

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-11 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Total Metals

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V	Batch
Cadmium	6.82 (1.64)		6010C		1	KJK	10/09/18 20:29	0.61	100	CJ80945
Chromium	2630 (3.28)		6010C		1	KJK	10/09/18 20:29	0.61	100	CJ80945
Lead	97400 (1640)		6010C		100	KJK	10/10/18 2:10	0.61	100	CJ80945



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-51 Date Sampled: 10/03/18 12:25 Percent Solids: N/A Initial Volume: 10.3 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810173 ESS Laboratory Sample ID: 1810173-11 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 10/6/18 16:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
Aroclor 1221	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
Aroclor 1232	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
Aroclor 1242	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
Aroclor 1248	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
Aroclor 1254	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
Aroclor 1260	4.0 (0.2)		8082A		5	10/10/18 21:54		CJ80604
Aroclor 1262	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
Aroclor 1268	ND (0.05)		8082A		1	10/10/18 4:01		CJ80604
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		46 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		41 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



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CERTIFICATE OF ANALYSIS

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Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810173

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			Total Meta	ls						
Batch CJ80945 - 3050B										
Blank										
Cadmium	ND	0.50	mg/kg wet	_	_	_	_	_	_	
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
LCS										
Cadmium	89.3	1.67	mg/kg wet	98.70		90	84-116			
Chromium	243	3.33	mg/kg wet	240.0		101	85-115			
Lead	270	16.7	mg/kg wet	276.0		98	84-116			
LCS Dup										
Cadmium	85.5	1.96	mg/kg wet	98.70		87	84-116	4	20	
Chromium	230	3.92	mg/kg wet	240.0		96	85-115	5	20	
Lead	268	19.6	mg/kg wet	276.0		97	84-116	0.8	20	
Reference										
Lead	3950	17.9	mg/kg wet	4490		88	83-113			
		80824 0-1	chlorinated 5	Sinhon d-	(PCP)	-	-			
		JUJZA POly	cinonnated E	ושווקיל	(rCD)					
Patch C100c04 acros										
שמונוו נוסטטט4 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate' Decachlorohinhenvl	0.0258		mg/ka wet	0.02500		103	30-150			
Surrogate: Decachlorohinhenvl [2C]	0.0238		mg/kg wet	0.02500		95	30-150			
Surrogate: Tetrachloro-m-vylene	0.0234		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-vulene [?/]	0.0255		mg/kg wet	0.02500		102	30-150			
							-			
 Aroclor 1016	0.5	0.05	ma/ka wet	0.5000		97	40-140			
Aroclor 1016 [2C]	0.5	0.05	ma/ka wet	0.5000		100	40-140			
· · · ·	0.0	0.00	יישו איש איצו	2.3000		200	UF1 0.			
185 Frances Aver	nue, Cranston, RI 029	10-2211	Tel: 401-461-71	81 Fa	ıx: 401-461-	-4486	http://www	.ESSLabor	atory.com	
		Dependabil	lity ♦ Qu	uality •	Service	9				D., 21 55
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810173

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CJ80604 - 3540C										
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		107	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Surrogate: Decachlorobiphenyl	0.0266		mg/kg wet	0.02500		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0262		mg/kg wet	0.02500		105	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		95	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		97	40-140	2	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		106	40-140	1	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	1	30	
Surrogate: Decachlorobiphenyl	0.0266		mg/kg wet	0.02500		106	30-150			
- · · · · · · · Surrogate: Decachlorobiphenyl [2C]	0.0241		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0244		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0253		mg/kg wet	0.02500		101	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810173

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
SI	Surrogate recovery(ies) outside of criteria. Insufficient sample volume for re-extraction (SI).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit

EDL Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810173

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Shipped/D	Coneco En	gineers, Scier	ntists & Surv ESS Courie	- KPB/TB/MM		ESS Date Project Days f	Project ID: Received: Due Date: or Project:	18 10/ 10/	10173 4/2018 12/2018 5 Day	
1. Air bill n Air No.:	nanifest pres	ent? NA		No		6. Does COC	match bottles?			Yes
2. Were cu	ustody seals	present?		No		7. Is COC col	mplete and correc	t?		Yes
3. Is radiat	ion count <1	00 CPM?		Yes		8. Were sam	oles received inta-	ct?		Yes
4. Is a Coo Temp:	oler Present? 3.2	Iced with:	Ice	Yes		9. Were labs	informed about	<u>short hol</u>	<u>ds & rushes</u> ?	Yes / Nov NA
5. Was CC	C signed an	- id dated by c	lient?	Yes		10. Were any	analyses receive	ed outside	of hold time?	Yes No
- 11. Any Sư ESS	bcontracting Sample IDs: Analysis: TAT:	needed?	Yes			12. Were VO a. Air bubble: b. Does meth	As received? s in aqueous VOA nanol cover soil co	s? mpletely?	<u> </u>	Yes No Yes / No Yes / No / NA
13. Are the a. If metals b. Low Lev Sample Ree	e samples pro s preserved u rel VOA vials ceiving Notes	operly preser Ipon receipt: frozen: s:	ved?	Yes No Date: Date:	·	Time: Time:		Ву: Ву:		
14. Was th a. Was the Who was co	ere a need to re a need to ontacted?	o contact Pro contact the c	oject Manag Slient?	er? Date:	Yes No Yes No	/ Time:		By:		
Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Containe	r Type	Preservative		Record pH (Cy Pestic	anide and 608 cides)
01	274459	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
02	274458	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
03	274457	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
04	2/4456	res	NA	Yes	4 oz. Jar -	Unpres	NP			
05	2/4455	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
06	274454	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
07	274453	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
08	274452	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
09	274451	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
10	274450	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			
11	274449	Yes	NA	Yes	4 oz. Jar -	Unpres	NP			

2nd Review Are barcode	/ labels on conteners?			
Are all nece	ssary stickers attached?	Yes / No	1 1	
Completed By:	Chin.	Date & Time:	18/4/18,200	Da
Reviewed By:	\square	Date & Time:	10/4/18	2712
Delivered By:				5715

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Division o	f Thielsch Eng	ineering, Inc.		Turn Time	· -	Report	na			01		/~	<u> </u>							
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	Co	ntact Person	10110313		Address	ormion Ave, Pawitucket RI	- u						Ì							
		Mark Zoller			4 First Street		ysi													
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ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sar	nple ID	•	PCBs	Total	Total (Total (
01	10/3/2018	10:55 a.m.	Grab	Solid	P	'S-41		х	х	х	х									
02	10/3/2018	11:10 a.m.	Grab	Solid	P	S-42		x	х	x	х									
03	10/3/2018	11:25 a.m.	Grab	Solid	P	S-43	i	х	x	х	х				\square			1-1		
04	10/3/2018	11:40 a.m.	Grab	Solid	Р	S-44		х	х	х	х				\square	T		\square		
05	10/3/2018	10:55 a.m.	Grab	Solid	P	S-45		х	х	х	х						1			
06	10/3/2018	11:10 a.m.	Grab	Solid	Р	S-46		х	х	х	x			1		T		\square		
07	10/3/2018	11:25 a.m.	Grab	Solid	P	S-47		х	х	х	х				Π	1				
08	10/3/2018	11:40 a.m.	Grab	Solid	P	S-48		х	х	х	х						1	\square		
09	10/3/2018	11:55 a.m.	Grab	Solid	P	S-49		х	х	х	x						\top		T	
10	10/3/2018	12:10 p.m.	Grab	Solid	P	S-50		х	х	х	x	Γ			\square			\square		
Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle C	C-Cubitainer G - Glass O-O	ther P-Poly S-Ster	ile V-Vial	AG	AG	AG	AG				\square		1			
Conta	iner Volume:	1-100 mL 2-	2.5 gal 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9	9	9	9	_								
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M6	ethanol 7-Na2S2O3 8-ZnAce, NaC	0H 9-NH4CI 10-DI H2O	11-Other*	1	1	1	1									
					Numbe	r of Containers per S	Sample:	1	1	1	1									
Í		Laboratory	/ Use Only		Sampled by : ACC/MJ	M/DCK														
Cooler	Present:	$ _ \checkmark _$			Comments:	Please spe	cify "Other	r" pro	eser	vativ	e an	d con	tainer	rs type	as in f	this sr	bace			
Seals	s Intact:	•		National Grid Project. Use Manual Soxblet Extraction per EPA Method 3540. Report Dry Weight																
Cooler Te	emperature:	1.8+3,2	°CILER	C I				ua	Cuon	per				+0, NO	port	//y **C	ngrit			
Re	linquished by:	(Signature, Dat	te & Time)	Received By: (Signature, Date & Time)	Relinguished By:	(Signature,	Date	e & T	ime)		\frown	Rec	eived	Bv: (S	Sianatı	ıre. Da	ate & 1	(ime)	
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Division o	^r Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush		Reporti	ng			<u>.</u>		PC	:Bs <	0.5 r	na/ka				,
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	Co	ntact Person Mark Zoller			Address 4 First Street		/sis													
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ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	San	nple 1D		PCBs	Total I	Total (Total (
11	10/3/2018	12:25 p.m.	Grab	Solid	P	S-51		x	х	x	x									
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Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	Iss B-BOD Bottle	C-Cubitainer J-Jar O-Ot	her P-Poly S-Ste	rile V-Vial	AG	AG	AG	AG					+			\neg	
Conta	iner Volume:	1-100 mL 2-	-2.5 gal 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	: 9-4 oz 10-8 oz	11-Other*	9	9	9	9									
Prese	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-1	MeOH 7-Na2S2O3 8-ZnAce, NaO	H 9-NH4CI 10-DI H2O	11-Other*	1	1	1	1									
					Numbe	er of Containers per	Sample:	1	1	1	1							L	_	
		Laboratory	y Use Only		Sampled by : ACC/MJM/DCK															
Cooler	Present:				Comments: Please specify "Other" preservative and containers types in this space															
Seal	s Intact:				National Grid Project, Use Ma	nual Soxhlet Extraction	on per EPA	Meth	od 3	540,	Repo	rt Dry V	Weigh	t						
Cooler T	emperature:	1.8+3.2	°CICER	C			•				·	•	•							
Re	linquished by:	(Signature, Da	te & Time)	Received By:	(Signature, Date & Time)	Relinquished By	: (Signature	, Date	e & T	ïme)			Recei	ved E	By: (Si	gnatyi	e, Dat	te & T	ïme)	
ch	and a	123/18	12 10/4/18 12.12:23 MM	R. Cales	510/4/181330	R. Cala	10/4/	18	15	45		\bigcup			Ø	4/14	5 2	DY.	2	
	linquished by:	(Signature, Da	te & Time)	Received By:	(Signature, Date & Time)	Relinquished By	: (Signature	, Date	∋&ĭ	'ime)			Recei	ved E	By: (Si	gnatu	e, Da	.e & T	ïme)	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1811011

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:37 pm, Nov 08, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811011

SAMPLE RECEIPT

The following samples were received on November 01, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1811011-01	PS-52	Solid	8082A
1811011-02	PS-53	Solid	8082A
1811011-03	PS-54	Solid	8082A
1811011-04	PS-55	Solid	8082A
1811011-05	PS-56	Solid	8082A
1811011-06	PS-57	Solid	8082A
1811011-07	PS-58	Solid	8082A
1811011-08	PS-59	Solid	8082A
1811011-09	PS-60	Solid	8082A
1811011-10	PS-61	Solid	8082A
1811011-11	PS-62	Solid	8082A
1811011-12	PS-63	Solid	8082A
1811011-13	PS-64	Solid	8082A
1811011-14	PS-65	Solid	8082A
1811011-15	PS-66	Solid	8082A
1811011-16	PS-67	Solid	8082A
1811011-17	PS-68	Solid	8082A
1811011-18	PS-69	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811011

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1811011-01	<u>Surrogate recovery(ies) diluted below the MRL (SD).</u>
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1811011-02	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1811011-05	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1811011-12	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1811011-13	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1811011-14	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1811011-15	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811011

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-52 Date Sampled: 10/30/18 08:40 Percent Solids: N/A Initial Volume: 10.2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-01 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1221	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1232	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1242	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1248	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1254	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1260 [2C]	49.8 (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1262	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
Aroclor 1268	ND (2.5)		8082A		50	11/06/18 11:55		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-53 Date Sampled: 10/30/18 09:10 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-02 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1221	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1232	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1242	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1248	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1254	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1260 [2C]	23.0 (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1262	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
Aroclor 1268	ND (1.0)		8082A		20	11/06/18 12:14		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-54 Date Sampled: 10/30/18 09:25 Percent Solids: N/A Initial Volume: 10.3 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-03 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
Aroclor 1221	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
Aroclor 1232	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
Aroclor 1242	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
Aroclor 1248	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
Aroclor 1254	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
Aroclor 1260 [2C]	3.8 (0.2)		8082A		5	11/06/18 12:33		CK80209
Aroclor 1262	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
Aroclor 1268	ND (0.05)		8082A		1	11/05/18 16:29		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		93 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-55 Date Sampled: 10/30/18 09:45 Percent Solids: N/A Initial Volume: 6.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-04 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
Aroclor 1221	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
Aroclor 1232	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
Aroclor 1242	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
Aroclor 1248	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
Aroclor 1254	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
Aroclor 1260 [2C]	8.7 (0.4)		8082A		5	11/06/18 12:52		CK80209
Aroclor 1262	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
Aroclor 1268	ND (0.08)		8082A		1	11/05/18 16:48		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-56 Date Sampled: 10/30/18 10:00 Percent Solids: N/A Initial Volume: 8.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-05 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1221	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1232	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1242	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1248	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1254	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1260	138 (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1262	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
Aroclor 1268	ND (6.2)		8082A		100	11/06/18 13:11		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-57 Date Sampled: 10/30/18 10:30 Percent Solids: N/A Initial Volume: 5.83 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-06 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1221	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1232	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1242	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1248	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1254	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1260	0.8 (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1262	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
Aroclor 1268	ND (0.09)		8082A		1	11/05/18 17:26		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		105 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-58 Date Sampled: 10/30/18 10:50 Percent Solids: N/A Initial Volume: 7.98 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-07 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

<u>Analyte</u>	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1221	ND (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1232	ND (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1242	ND (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1248	ND (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1254 [2C]	1.2 (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1260 [2C]	1.5 (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1262	ND (0.06)		8082A		1	11/06/18 13:30		CK80209
Aroclor 1268 [2C]	0.5 (0.06)		8082A		1	11/06/18 13:30		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		127 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		136 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-59 Date Sampled: 10/30/18 11:00 Percent Solids: N/A Initial Volume: 2.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-08 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequen	<u>ce Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1221	ND (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1232	ND (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1242	ND (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1248	ND (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1254 [2C]	0.9 (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1260 [2C]	0.7 (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1262	ND (0.2)		8082A		1	11/05/18 18:05	CK80209
Aroclor 1268	ND (0.2)		8082A		1	11/05/18 18:05	CK80209
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		81 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150			
Surrogate: Tetrachloro-m-xylene		80 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150			


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-60 Date Sampled: 10/30/18 11:20 Percent Solids: N/A Initial Volume: 0.52 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-09 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> S	Sequence	Batch
Aroclor 1016	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1221	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1232	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1242	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1248	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1254	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1260 [2C]	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1262	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
Aroclor 1268	ND (1.0)		8082A		1	11/05/18 20:18		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-61 Date Sampled: 10/30/18 11:45 Percent Solids: N/A Initial Volume: 1.68 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-10 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u>	Batch
Aroclor 1221	ND (0.3) ND (0.3)		8082A 8082A		1	11/05/18 20:37		CK80209
Aroclor 1232	ND (0.3)		8082A		1	11/05/18 20:37		CK80209
Aroclor 1242	ND (0.3)		8082A		1	11/05/18 20:37		CK80209
Aroclor 1248	ND (0.3)		8082A		1	11/05/18 20:37		CK80209
Aroclor 1254	ND (0.3)		8082A		1	11/05/18 20:37		CK80209
Aroclor 1260	0.4 (0.3)		8082A		1	11/05/18 20:37		CK80209
Aroclor 1262	ND (0.3)		8082A		1	11/05/18 20:37		CK80209
Aroclor 1268	ND (0.3)		8082A		1	11/05/18 20:37		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-62 Date Sampled: 10/30/18 11:55 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-11 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequen	<u>ce Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1221	ND (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1232	ND (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1242	ND (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1248	ND (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1254	2.0 (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1260	2.0 (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1262	ND (0.05)		8082A		1	11/05/18 20:56	CK80209
Aroclor 1268	ND (0.05)		8082A		1	11/05/18 20:56	CK80209
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		88 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150			
Surrogate: Tetrachloro-m-xylene		80 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-63 Date Sampled: 10/30/18 12:00 Percent Solids: N/A Initial Volume: 9.29 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-12 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1221	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1232	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1242	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1248	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1254	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1260 [2C]	33.3 (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1262	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
Aroclor 1268	ND (2.7)		8082A		50	11/06/18 13:49		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-64 Date Sampled: 10/30/18 12:15 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-13 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1221	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1232	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1242	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1248	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1254	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1260 [2C]	10.4 (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1262	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
Aroclor 1268	ND (1.0)		8082A		20	11/06/18 14:08		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-65 Date Sampled: 10/30/18 12:30 Percent Solids: N/A Initial Volume: 4.74 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-14 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1221	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1232	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1242	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1248	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1254	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1260	44.6 (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1262	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
Aroclor 1268	ND (2.1)		8082A		20	11/06/18 14:27		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-66 Date Sampled: 10/30/18 12:45 Percent Solids: N/A Initial Volume: 2.67 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-15 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1221	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1232	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1242	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1248	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1254	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1260	97.9 (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1262	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
Aroclor 1268	ND (3.7)		8082A		20	11/06/18 14:47		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-67 Date Sampled: 10/30/18 12:55 Percent Solids: N/A Initial Volume: 10 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-16 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Seq</u>	<u>uence</u> <u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
Aroclor 1221	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
Aroclor 1232	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
Aroclor 1242	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
Aroclor 1248	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
Aroclor 1254	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
Aroclor 1260 [2C]	10.0 (0.5)		8082A		10	11/06/18 15:06	CK80209
Aroclor 1262	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
Aroclor 1268	ND (0.05)		8082A		1	11/05/18 22:32	CK80209
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		131 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		59 %		30-150			
Surrogate: Tetrachloro-m-xylene		93 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-68 Date Sampled: 10/31/18 14:00 Percent Solids: N/A Initial Volume: 1.75 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-17 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1221	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1232	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1242	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1248	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1254	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1260 [2C]	2.6 (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1262	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
Aroclor 1268	ND (0.3)		8082A		1	11/05/18 22:51		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		128 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		121 %		30-150				
Surrogate: Tetrachloro-m-xylene		99 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-69 Date Sampled: 10/31/18 14:30 Percent Solids: N/A Initial Volume: 10.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811011 ESS Laboratory Sample ID: 1811011-18 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 11/2/18 16:51

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
Aroclor 1221	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
Aroclor 1232	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
Aroclor 1242	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
Aroclor 1248	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
Aroclor 1254	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
Aroclor 1260 [2C]	4.9 (0.2)		8082A		5	11/06/18 15:25		CK80209
Aroclor 1262	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
Aroclor 1268	ND (0.05)		8082A		1	11/05/18 23:10		CK80209
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811011

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Polyc	chlorinated E	Biphenyls	(PCB)					
Dattii CA8U2U9 - 334UC										
	ND	0.02	ma/ka wet							
Araclar 1016 [2C]		0.02	mg/kg wet							
Araclar 1221	ND	0.02	ma/ka wet							
Araclar 1221 [2C]	ND	0.02	ma/ka wet							
Aroclor 1232	ND	0.02	ma/ka wet							
Aroclor 1232 [2C]	ND	0.02	ma/ka wet							
Aroclor 1242	ND	0.02	ma/ka wet							
Aroclor 1242 [2C]	ND	0.02	ma/ka wet							
Aroclor 1248	ND	0.02	ma/ka wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/ka wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0237		mg/kg wet	0.02500		<i>95</i>	30-150			
-	0.0247		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			
LCS										
Aroclor 1016	0.6	0.02	mg/kg wet	0.5000		112	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		101	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		110	40-140			
Surrogate: Decachlorobiphenyl	0.0241		mg/kg wet	0.02500		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene	0.0249		mg/kg wet	0.02500		99	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
LCS Dup										
Aroclor 1016	0.6	0.02	mg/kg wet	0.5000		116	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		106	40-140	5	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		107	40-140	7	30	
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		120	40-140	9	30	
Surrogate: Decachlorobiphenyl	0.0262		mg/kg wet	0.02500		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0267		mg/kg wet	0.02500		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.0256		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0234		mg/kg wet	0.02500		93	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811011

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811011

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1811011	
Shipped/Delivered Via: ESS Courier	Date Received: 11/1/2018 Project Due Date: 11/8/2018 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM?	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes Temp: 2.6 Iced with; Ice	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No 🕅
5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time?	Yes /
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date:	Time: By: Time: By:	
14. vvas inere a need to contact Project Manager? Yes (No) a. Was there a need to contact the client? Yes / No Who was contacted? Date:	By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	285256	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	285255	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	285254	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	285253	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	285252	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	285251	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	285250	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	285249	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	285248	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	285247	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	285246	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	285245	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	285244	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	285243	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	285242	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
16	285241	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
17	285240	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	285239	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review Are barcode labels on correct containers? Are all necessary stickers attached?



Client:	Coneco Engineers, Scientists & Surv - KPB/TB/MM		ESS Project ID:	1811011	
.			Date Received:	11/1/2018	
Completed	(2)+		. 11.0	20	
Dy.		Date & Time:	11/18	818	
By:		Date & Time:		1839	
Delivered By:			VILLES	1839	
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ESS Laboratory Sample and Cooler Receipt Checklist

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Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-Me	thanol 7-Na2S2O3 8	3-ZnAce, Nat	OH 9-NH4CI 10-DI	11-Oth	er*	1	1	1	1					+++		+	+
		/		·		Numbe	er of Containers	per Sample	:	1	1	1	1	1				+ +			+
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14		12:30pm	Grub	Puint	P5-65			X											
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18	10/31/18	2:30pm	Grub	Paint	°P5-69			X											
Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	ss B-BOD Bottle (C-Cubitainer G - Glass O-	Other P-Poly S-Ste	rile V-Vial	AG /	AG	AG	AG								
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 ml	4-300 mL 5-500) mL 6-1L 7-VOA 8-2 0	z 9-4 oz 10-8 oz	11-Other*	9	9	9	9								
Prese	rvation Code:	1-Non Preserved	1 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-DI H2O	11-Other*	1	1	1	1								
			1		Numb	er of Containers per	Sample:	1	1	1	1								
		Laborator	y Use Only		Sampled by : ACC/MJ	M													
Coole	r Present:				Comments:	Please sp	ecify "Other	r" pre	ser	vativ	e and	conta	iners ty	pes in t	his spa	ce			
Seal	s Intact:	•			National	Grid Project, Use Man	ual Soxhlet	Extrac	ction	per		Nethoo	i 3540, I	Report D	ry Weig	ht			
Cooler T	emperature:	26	OTCER	(if insuffic	ient	vol	un	ė.	0	nat	740	for 1	P(BS	<i>f</i> (rs+	-	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1903022

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:53 pm, Mar 08, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903022

SAMPLE RECEIPT

The following samples were received on March 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1903022-01	PS-70	Solid	8082A
1903022-02	PS-71	Solid	8082A
1903022-03	PS-72	Solid	8082A
1903022-04	PS-73	Solid	8082A
1903022-05	PS-74	Solid	8082A
1903022-06	PS-75	Solid	8082A
1903022-07	PS-76	Solid	8082A
1903022-08	PS-77	Solid	8082A
1903022-09	PS-78	Solid	8082A
1903022-10	PS-79	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903022

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1903022-01	<u>Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).</u>
	Decachlorobiphenyl (170% @ 30-150%), Decachlorobiphenyl [2C] (183% @ 30-150%)
1903022-02	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1903022-03	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (155% @ 30-150%), Decachlorobiphenyl [2C] (177% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903022

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-70 Date Sampled: 02/28/19 10:02 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed	Sequence	Batch
Arocior 1016	ND (0.1)		8082A		1	03/07/19 0:01	C9C0095	CC90409
Arocior 1221	ND (0.1)		8082A		1	03/07/19 0:01	090093	CC90409
Aroclor 1232	ND (0.1)		8082A		1	03/07/19 0:01	C9C0095	CC90409
Aroclor 1242	ND (0.1)		8082A		1	03/07/19 0:01	C9C0095	CC90409
Aroclor 1248	ND (0.1)		8082A		1	03/07/19 0:01	C9C0095	CC90409
Aroclor 1254	ND (0.1)		8082A		1	03/07/19 0:01	C9C0095	CC90409
Aroclor 1260	31.1 (1.0)		8082A		10	03/07/19 18:28	C9C0095	CC90409
Aroclor 1262	ND (0.1)		8082A		1	03/07/19 0:01	C9C0095	CC90409
Aroclor 1268	3.0 (0.1)		8082A		1	03/07/19 0:01	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		170 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		183 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		50 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		54 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-71 Date Sampled: 02/28/19 10:08 Percent Solids: N/A Initial Volume: 4.82 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	$\frac{\mathbf{DF}}{20}$	<u>Analyzed</u> 03/08/19_11:00	Sequence C9C0124	<u>Batch</u> CC90409
Aroclor 1221	ND (2.1) ND (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
Aroclor 1232	ND (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
Aroclor 1242	ND (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
Aroclor 1248	ND (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
Aroclor 1254	ND (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
Aroclor 1260	44.1 (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
Aroclor 1262	ND (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
Aroclor 1268	6.9 (2.1)		8082A		20	03/08/19 11:00	C9C0124	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SM	30-150				
Surrogate: Tetrachloro-m-xylene		%	SM	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SM	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-72 Date Sampled: 02/28/19 10:18 Percent Solids: N/A Initial Volume: 3.84 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 03/07/19 0:39	Sequence	<u>Batch</u> CC90409
Aroclor 1221	ND (0.1)		8082A		1	03/07/19 0:39	C9C0095	CC90409
Aroclor 1232	ND (0.1)		8082A		1	03/07/19 0:39	C9C0095	CC90409
Aroclor 1242	ND (0.1)		8082A		1	03/07/19 0:39	C9C0095	CC90409
Aroclor 1248	ND (0.1)		8082A		1	03/07/19 0:39	C9C0095	CC90409
Aroclor 1254	ND (0.1)		8082A		1	03/07/19 0:39	C9C0095	CC90409
Aroclor 1260	13.0 (1.3)		8082A		10	03/07/19 19:06	C9C0095	CC90409
Aroclor 1262	ND (0.1)		8082A		1	03/07/19 0:39	C9C0095	CC90409
Aroclor 1268	1.3 (0.1)		8082A		1	03/07/19 0:39	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		155 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		177 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		45 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		49 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-73 Date Sampled: 02/28/19 10:25 Percent Solids: N/A Initial Volume: 1.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.4)		8082A		1	03/07/19 0:58	C9C0095	CC90409
Aroclor 1232	ND (0.4)		8082A		1	03/07/19 0:58	C9C0095	CC90409
Aroclor 1242	ND (0.4)		8082A		1	03/07/19 0:58	C9C0095	CC90409
Aroclor 1248	ND (0.4)		8082A		1	03/07/19 0:58	C9C0095	CC90409
Aroclor 1254	ND (0.4)		8082A		1	03/07/19 0:58	C9C0095	CC90409
Aroclor 1260 [2C]	30.8 (4.4)		8082A		10	03/07/19 19:25	C9C0095	CC90409
Aroclor 1262	ND (0.4)		8082A		1	03/07/19 0:58	C9C0095	CC90409
Aroclor 1268	2.8 (0.4)		8082A		1	03/07/19 0:58	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		121 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		125 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-74 Date Sampled: 02/28/19 10:30 Percent Solids: N/A Initial Volume: 1.76 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1221	ND (0.3)		8082A		1	03/07/19 1:17	C9C0095	CC90409
Aroclor 1232	ND (0.3)		8082A		1	03/07/19 1:17	C9C0095	CC90409
Aroclor 1242	ND (0.3)		8082A		1	03/07/19 1:17	C9C0095	CC90409
Aroclor 1248	ND (0.3)		8082A		1	03/07/19 1:17	C9C0095	CC90409
Aroclor 1254	ND (0.3)		8082A		1	03/07/19 1:17	C9C0095	CC90409
Aroclor 1260	29.9 (2.8)		8082A		10	03/07/19 19:44	C9C0095	CC90409
Aroclor 1262	ND (0.3)		8082A		1	03/07/19 1:17	C9C0095	CC90409
Aroclor 1268	ND (0.3)		8082A		1	03/07/19 1:17	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		46 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>49 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		38 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		41 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-75 Date Sampled: 02/28/19 10:38 Percent Solids: N/A Initial Volume: 1.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 03/07/19 1:36	Sequence	<u>Batch</u> CC90409
Aroclor 1221	ND (0.5)		8082A		1	03/07/19 1:36	C9C0095	CC90409
Aroclor 1232	ND (0.5)		8082A		1	03/07/19 1:36	C9C0095	CC90409
Aroclor 1242	ND (0.5)		8082A		1	03/07/19 1:36	C9C0095	CC90409
Aroclor 1248	ND (0.5)		8082A		1	03/07/19 1:36	C9C0095	CC90409
Aroclor 1254	ND (0.5)		8082A		1	03/07/19 1:36	C9C0095	CC90409
Aroclor 1260	38.5 (4.8)		8082A		10	03/07/19 20:03	C9C0095	CC90409
Aroclor 1262	ND (0.5)		8082A		1	03/07/19 1:36	C9C0095	CC90409
Aroclor 1268	5.0 (0.5)		8082A		1	03/07/19 1:36	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		145 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		147 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-76 Date Sampled: 02/28/19 10:50 Percent Solids: N/A Initial Volume: 1.98 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.3)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/07/19 1:55	Sequence C9C0095	<u>Batch</u> CC90409
Aroclor 1221	ND (0.3)		8082A		1	03/07/19 1:55	C9C0095	CC90409
Aroclor 1232	ND (0.3)		8082A		1	03/07/19 1:55	C9C0095	CC90409
Aroclor 1242	ND (0.3)		8082A		1	03/07/19 1:55	C9C0095	CC90409
Aroclor 1248	ND (0.3)		8082A		1	03/07/19 1:55	C9C0095	CC90409
Aroclor 1254	ND (0.3)		8082A		1	03/07/19 1:55	C9C0095	CC90409
Aroclor 1260	24.6 (2.5)		8082A		10	03/07/19 20:22	C9C0095	CC90409
Aroclor 1262	ND (0.3)		8082A		1	03/07/19 1:55	C9C0095	CC90409
Aroclor 1268	2.8 (0.3)		8082A		1	03/07/19 1:55	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		111 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		115 %		30-150				
Surrogate: Tetrachloro-m-xylene		47 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		50 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-77 Date Sampled: 02/28/19 11:31 Percent Solids: N/A Initial Volume: 0.946 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
Aroclor 1221	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
Aroclor 1232	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
Aroclor 1242	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
Aroclor 1248	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
Aroclor 1254	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
Aroclor 1260	29.7 (5.3)		8082A		10	03/07/19 20:41	C9C0095	CC90409
Aroclor 1262	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
Aroclor 1268	ND (0.5)		8082A		1	03/07/19 2:14	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		50 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		50 %		30-150				
Surrogate: Tetrachloro-m-xylene		44 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		49 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-78 Date Sampled: 02/28/19 11:49 Percent Solids: N/A Initial Volume: 1.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 03/07/19 2:33	Sequence	<u>Batch</u> CC90409
Aroclor 1221	ND (0.5)		8082A		1	03/07/19 2:33	C9C0095	CC90409
Aroclor 1232	ND (0.5)		8082A		1	03/07/19 2:33	C9C0095	CC90409
Aroclor 1242	ND (0.5)		8082A		1	03/07/19 2:33	C9C0095	CC90409
Aroclor 1248	ND (0.5)		8082A		1	03/07/19 2:33	C9C0095	CC90409
Aroclor 1254	ND (0.5)		8082A		1	03/07/19 2:33	C9C0095	CC90409
Aroclor 1260	29.5 (5.0)		8082A		10	03/07/19 21:00	C9C0095	CC90409
Aroclor 1262	ND (0.5)		8082A		1	03/07/19 2:33	C9C0095	CC90409
Aroclor 1268	ND (0.5)		8082A		1	03/07/19 2:33	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		55 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150				
Surrogate: Tetrachloro-m-xylene		51 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		51 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-79 Date Sampled: 02/28/19 11:51 Percent Solids: N/A Initial Volume: 1.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903022 ESS Laboratory Sample ID: 1903022-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 16:05

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 03/07/19 2:52	Sequence	<u>Batch</u> CC90409
Aroclor 1221	ND (0.4)		8082A		1	03/07/19 2:52	C9C0095	CC90409
Aroclor 1232	ND (0.4)		8082A		1	03/07/19 2:52	C9C0095	CC90409
Aroclor 1242	ND (0.4)		8082A		1	03/07/19 2:52	C9C0095	CC90409
Aroclor 1248	ND (0.4)		8082A		1	03/07/19 2:52	C9C0095	CC90409
Aroclor 1254	ND (0.4)		8082A		1	03/07/19 2:52	C9C0095	CC90409
Aroclor 1260 [2C]	27.5 (4.1)		8082A		10	03/07/19 21:19	C9C0095	CC90409
Aroclor 1262	ND (0.4)		8082A		1	03/07/19 2:52	C9C0095	CC90409
Aroclor 1268	2.6 (0.4)		8082A		1	03/07/19 2:52	C9C0095	CC90409
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		111 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		109 %		30-150				
Surrogate: Tetrachloro-m-xylene		50 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		54 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903022

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CC90409 - 3540C										
Blank	ND	0.02								
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	ma/ka wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenvl	0.0244		mg/kg wet	0.02500		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0228		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0247		mg/kg wet	0.02500		99	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		103	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobiphenyl	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0246		mg/kg wet	0.02500		98	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0233		mg/kg wet	0.02500		93	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		97	40-140	6	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	6	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		85	40-140	6	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140	6	30	
Surrogate: Decachlorobiphenyl	0.0234		mg/kg wet	0.02500		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0238		mg/kg wet	0.02500		95	30-150			
Surrogate: Tetrachloro-m-xylene	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0219		mg/kg wet	0.02500		88	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903022

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/ V E/V	Final Volume
Γ/ V	Sub-sector to developing and attached and attached
<u> </u>	Subcontracted analysis; see attached report
2	Range result excludes concentrations of target analytes eluting in that range.
2	Range result excludes the concentration of the $C9-C10$ aromatic range
Ο Ανσ	Populta reported as a methomatical average
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis: see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CEU	Colony Forming Units
010	Colony Forming Onits



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903022

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1903022 Date Received: 3/1/2019	_
Shipped/Delivered Via: ESS Courier	Project Due Date: 3/8/2019 Days for Project: 5 Day	_
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No/ NA
Temp: <u>1.4</u> [ced with: <u>lce</u>	10. Were any analyses received outside of hold time?	Yes No
5. Was COC signed and dated by client?		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes/ No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
	<u> </u>	
14. Was there a need to contact Project Manager? Ye a. Was there a need to contact the client? Ye Who was contacted? Date:	By:	
Sample Container Proper Air Sufficient	Container Type Preservative Pest	vanide and 608.3 icides)

Sample Number	Container ID	Proper Container	Bubbles Present	Sufficient Volume	Container Type	Preservative	Pesticides)										
01	320508	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
02	320507	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
02	320506	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
04	320505	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
05	320504	Yes	NA	Yes	4 oz. Jar - Unpres												
06	320503	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
07	320502	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
08	320501	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
09	320500	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
10	320499	Yes	NA	Yes	4 oz. Jar - Unpres	NP											
2nd Revie All contai Are barcod Are all nec Completed By: Reviewed By: Delivered	w ners scann le labels on nessary stick	ed into stora correct contains attached?	age/lab iners?		hoitials: Yes No Yes No Date & Time:	19 1742 3/119 1 3/119	1840										
Division of Thema: Explored training, inc. Turn Time: 5-0g Rush: Reporting PCS = 0.5 ppm 124. (401) 451-145 Tax (401) 451-145 Turn Time: 5-0g Rush: Reporting PCS = 0.5 ppm 124. (401) 451-145 Tax (401) 451-145 Reputatory State: Reputatory State: Reputatory State: Reputatory State: Detworkstate Detwo	ESS L	SS Laboratory				CHAIN OF CUST	ODY	ESS La	ab #	70	N2	77					
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145 Fraces Avenue, Charles N1 (0210) Regulatory State: Thode stated Links PCB 5: 0.0 ppm 145 Fraces Avenue, Charles N1 (0210) Is the project for any of the following?: Links PCB 5: 0.0 ppm 146 FraceState 0 (04) 145 Frace (04) 145 Frace Project frace <	Division of	^r Thielsch Engi	neering, Inc.		Turn Time	: 5-Day Ru	sh:	Report	ting								
Tel. (40) (46) / 161 / 261 /	185 Franc	es Avenue, Cra	anston RI 0291	10	Regulatory State	: Rhode Island		Limi	ts	PUBS <	u.5 ppm						
unw.selected by compare Name Consect Parts of the second and the	Tel. (401)	461-7181 Fax	k (401) 461-44	86	ls t	his project for any of the fo	llowing?:	Electo	nic	🔲 Limit	Checker	r 🗆 Ex	cel				
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A Provide A	<u> </u>	Coneco Eng	ineers and So	cientists	5675.F	Pawhicket 1 whose	house, 6 thouton Av	e	2								
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Q 2/28/19 11: 49 a, m. Grab paint PS - 78 10 2/28/19 11: 51 a, n. Grab paint PS - 79 Container Type: AG-Amber Glass PBOD Bottle G-Glass P-Poly S-Sterile V-Vial O-Other ag Preservation Code: 1-Non Preserved 2+HCl 3+H2SO4 4+HNO3 5-NaOH 6-Methenol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DH2O 11-Other 1	4	2/28/19	11:31 a.n.	Grab	paint	PS- 7	7		X								
Low Difference Difference <thdifference< th=""> <thdifference< th=""></thdifference<></thdifference<>	4	2/28/19	11.49 a.m	Grab	paint	<u>PS - 78</u>			X				+ $+$	+			
Outstander Type: Advander Grass BPOD blute Gedrass PPON Science Votal O-Outer Image: Second Code: 1 Non Preserved 24Hci 3:42804 44HN03 5:NaOH 6-Methanol 7:Na28203 8:ZnAce, NaOH 9-NH4Cl 10-DH20 11:Other Image: Second Code: 1 Image: Second Code: 1 Image: Second Code: Image: Second Code: 1 Image: Second Code: 1 Image: Second Code: Image: Second Code: </td <td></td> <td>Z/Z8/19</td> <td>11:51 a.m.</td> <td></td> <td>PROD Bottle</td> <td>PS - 7</td> <td></td> <td>•</td> <td>X</td> <td></td> <td></td> <td></td> <td><u> </u> </td> <td></td> <td></td> <td></td> <td>_</td>		Z/Z8/19	11:51 a.m.		PROD Bottle	PS - 7		•	X				<u> </u>				_
Number of Containers: 10 Laboratory Use Only Sampled by: KML/MJM Cooler Present: Seals Intact: Seals Intact: Comments: Ocoler Temperature: 1.4 °C ICE RC Relinquished by: (Signature, Date & Time)	Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	Aethanol 7-Na2S2O3 8-ZnAce	NaOH 9-NH4CI 10-DIH	20 11-Other	ay • 1				+ +		_		—
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Laboratory Use Only Sampled by: KML/MJM Cooler Present:										<u> </u>	I		<u> </u>				
Cooler Present: Comments: Please specify "Other" preservative and containers types in this space Seals Intact: National Grid Project, USE Munual Southlet exhaustion per FFA Method 3540, Report Day Weight, homogranize Sample, TSCA requirements, Provide Bill data package Cooler Temperature: 1.4 °C ICERC Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished by: (Signature, Date & Time) Received By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished by: (Signature, Date & Time) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished Dy: (Signature, Date & Time) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date & Time) Relinquished Dy: (Signature, Date & Time) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date & Time)			Laboratory	y Use Only		Sampled by : KML/M	JM										
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1903014

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:29 pm, Mar 08, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903014

SAMPLE RECEIPT

The following samples were received on March 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1903014-01	PS-80	Solid	8082A
1903014-02	PS-81	Solid	8082A
1903014-03	PS-82	Solid	8082A
1903014-04	PS-83	Solid	8082A
1903014-05	PS-84	Solid	8082A
1903014-06	PS-85	Solid	8082A
1903014-07	PS-86	Solid	8082A
1903014-08	PS-87	Solid	8082A
1903014-09	PS-88	Solid	8082A
1903014-10	PS-89	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903014

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1903014-01	Lower value is used due to matrix interferences (LC).
	Aroclor 1268 [2C]
1903014-01	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1268 [2C]
1903014-06	Lower value is used due to matrix interferences (LC).
	Aroclor 1268 [2C]
1903014-06	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (174% @ 30-150%), Decachlorobiphenyl [2C] (183% @ 30-150%)
1903014-07	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl [2C] (155% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters Semivolatile Organics Internal Standard Information Semivolatile Organics Surrogate Information Volatile Organics Internal Standard Information Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903014

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-80 Date Sampled: 02/28/19 11:50 Percent Solids: N/A Initial Volume: 0.959 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.5)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 15:51	<u>Sequence</u> C9C0096	<u>Batch</u> CC90407
Aroclor 1221	ND (0.5)		8082A		1	03/06/19 15:51	C9C0096	CC90407
Aroclor 1232	ND (0.5)		8082A		1	03/06/19 15:51	C9C0096	CC90407
Aroclor 1242	ND (0.5)		8082A		1	03/06/19 15:51	C9C0096	CC90407
Aroclor 1248	ND (0.5)		8082A		1	03/06/19 15:51	C9C0096	CC90407
Aroclor 1254	ND (0.5)		8082A		1	03/06/19 15:51	C9C0096	CC90407
Aroclor 1260	53.3 (5.2)		8082A		10	03/07/19 0:12	C9C0096	CC90407
Aroclor 1262	ND (0.5)		8082A		1	03/06/19 15:51	C9C0096	CC90407
Aroclor 1268 [2C]	LC, P 3.4 (0.5)		8082A		1	03/06/19 15:51	C9C0096	CC90407
	<u>(</u>	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		135 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		141 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-81 Date Sampled: 02/28/19 11:52 Percent Solids: N/A Initial Volume: 1.98 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	Results (MRL) ND (0.3)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 16:11	<u>Sequence</u> C9C0096	<u>Batch</u> CC90407
Aroclor 1221	ND (0.3)		8082A		1	03/06/19 16:11	C9C0096	CC90407
Aroclor 1232	ND (0.3)		8082A		1	03/06/19 16:11	C9C0096	CC90407
Aroclor 1242	ND (0.3)		8082A		1	03/06/19 16:11	C9C0096	CC90407
Aroclor 1248	ND (0.3)		8082A		1	03/06/19 16:11	C9C0096	CC90407
Aroclor 1254	ND (0.3)		8082A		1	03/06/19 16:11	C9C0096	CC90407
Aroclor 1260	52.7 (2.5)		8082A		10	03/07/19 0:31	C9C0096	CC90407
Aroclor 1262	ND (0.3)		8082A		1	03/06/19 16:11	C9C0096	CC90407
Aroclor 1268	ND (0.3)		8082A		1	03/06/19 16:11	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		97 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-82 Date Sampled: 02/28/19 11:55 Percent Solids: N/A Initial Volume: 1.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.5)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 16:30	Sequence C9C0096	<u>Batch</u> CC90407
Aroclor 1221	ND (0.5)		8082A		1	03/06/19 16:30	C9C0096	CC90407
Aroclor 1232	ND (0.5)		8082A		1	03/06/19 16:30	C9C0096	CC90407
Aroclor 1242	ND (0.5)		8082A		1	03/06/19 16:30	C9C0096	CC90407
Aroclor 1248	ND (0.5)		8082A		1	03/06/19 16:30	C9C0096	CC90407
Aroclor 1254	ND (0.5)		8082A		1	03/06/19 16:30	C9C0096	CC90407
Aroclor 1260	67.3 (4.6)		8082A		10	03/07/19 0:50	C9C0096	CC90407
Aroclor 1262	ND (0.5)		8082A		1	03/06/19 16:30	C9C0096	CC90407
Aroclor 1268	ND (0.5)		8082A		1	03/06/19 16:30	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-83 Date Sampled: 02/28/19 11:56 Percent Solids: N/A Initial Volume: 5.57 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.09) ND (0.09)		8082A 8082A		1	03/06/19 16:49	C9C0096	CC90407 CC90407
Aroclor 1232	ND (0.09)		8082A		1	03/06/19 16:49	C9C0096	CC90407
Aroclor 1242	ND (0.09)		8082A		1	03/06/19 16:49	C9C0096	CC90407
Aroclor 1248	ND (0.09)		8082A		1	03/06/19 16:49	C9C0096	CC90407
Aroclor 1254	ND (0.09)		8082A		1	03/06/19 16:49	C9C0096	CC90407
Aroclor 1260	20.7 (0.9)		8082A		10	03/07/19 1:09	C9C0096	CC90407
Aroclor 1262	ND (0.09)		8082A		1	03/06/19 16:49	C9C0096	CC90407
Aroclor 1268	ND (0.09)		8082A		1	03/06/19 16:49	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-84 Date Sampled: 02/28/19 12:02 Percent Solids: N/A Initial Volume: 4.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.1) ND (0.1)		8082A		1	03/06/19 17:08	C9C0096	CC90407 CC90407
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 17:08	C9C0096	CC90407
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 17:08	C9C0096	CC90407
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 17:08	C9C0096	CC90407
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 17:08	C9C0096	CC90407
Aroclor 1260	25.7 (1.2)		8082A		10	03/07/19 1:28	C9C0096	CC90407
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 17:08	C9C0096	CC90407
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 17:08	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-85 Date Sampled: 02/28/19 12:03 Percent Solids: N/A Initial Volume: 3.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1221	ND (0.2)		8082A		1	03/06/19 17:28	C9C0096	CC90407
Aroclor 1232	ND (0.2)		8082A		1	03/06/19 17:28	C9C0096	CC90407
Aroclor 1242	ND (0.2)		8082A		1	03/06/19 17:28	C9C0096	CC90407
Aroclor 1248	ND (0.2)		8082A		1	03/06/19 17:28	C9C0096	CC90407
Aroclor 1254	ND (0.2)		8082A		1	03/06/19 17:28	C9C0096	CC90407
Aroclor 1260	20.4 (1.6)		8082A		10	03/07/19 1:48	C9C0096	CC90407
Aroclor 1262	ND (0.2)		8082A		1	03/06/19 17:28	C9C0096	CC90407
Aroclor 1268 [2C]	LC 1.2 (0.2)		8082A		1	03/06/19 17:28	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		174 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		183 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-86 Date Sampled: 02/28/19 12:05 Percent Solids: N/A Initial Volume: 4.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 17:47	<u>Sequence</u> C9C0096	<u>Batch</u> CC90407
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 17:47	C9C0096	CC90407
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 17:47	C9C0096	CC90407
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 17:47	C9C0096	CC90407
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 17:47	C9C0096	CC90407
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 17:47	C9C0096	CC90407
Aroclor 1260	20.3 (1.1)		8082A		10	03/07/19 2:07	C9C0096	CC90407
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 17:47	C9C0096	CC90407
Aroclor 1268	2.0 (0.1)		8082A		1	03/06/19 17:47	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		149 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		155 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		63 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-87 Date Sampled: 02/28/19 12:06 Percent Solids: N/A Initial Volume: 4.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 03/06/19 18:06	Sequence C9C0096	<u>Batch</u> CC90407
Aroclor 1221	ND (0.1)		8082A		1	03/06/19 18:06	C9C0096	CC90407
Aroclor 1232	ND (0.1)		8082A		1	03/06/19 18:06	C9C0096	CC90407
Aroclor 1242	ND (0.1)		8082A		1	03/06/19 18:06	C9C0096	CC90407
Aroclor 1248	ND (0.1)		8082A		1	03/06/19 18:06	C9C0096	CC90407
Aroclor 1254	ND (0.1)		8082A		1	03/06/19 18:06	C9C0096	CC90407
Aroclor 1260	27.5 (1.2)		8082A		10	03/07/19 2:26	C9C0096	CC90407
Aroclor 1262	ND (0.1)		8082A		1	03/06/19 18:06	C9C0096	CC90407
Aroclor 1268	ND (0.1)		8082A		1	03/06/19 18:06	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		93 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-88 Date Sampled: 02/28/19 12:08 Percent Solids: N/A Initial Volume: 2.94 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte Arcelor 1016	<u>Results (MRL)</u>	MDL	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.2) ND (0.2)		8082A 8082A		1	03/06/19 18:26	C9C0096	CC90407 CC90407
Aroclor 1232	ND (0.2)		8082A		1	03/06/19 18:26	C9C0096	CC90407
Aroclor 1242	ND (0.2)		8082A		1	03/06/19 18:26	C9C0096	CC90407
Aroclor 1248	ND (0.2)		8082A		1	03/06/19 18:26	C9C0096	CC90407
Aroclor 1254	ND (0.2)		8082A		1	03/06/19 18:26	C9C0096	CC90407
Aroclor 1260	29.1 (1.7)		8082A		10	03/07/19 2:45	C9C0096	CC90407
Aroclor 1262	ND (0.2)		8082A		1	03/06/19 18:26	C9C0096	CC90407
Aroclor 1268	ND (0.2)		8082A		1	03/06/19 18:26	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-89 Date Sampled: 02/28/19 12:09 Percent Solids: N/A Initial Volume: 2.56 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903014 ESS Laboratory Sample ID: 1903014-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
Aroclor 1221	ND (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
Aroclor 1232	ND (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
Aroclor 1242	ND (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
Aroclor 1248	ND (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
Aroclor 1254	ND (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
Aroclor 1260	20.8 (2.0)		8082A		10	03/07/19 3:05	C9C0096	CC90407
Aroclor 1262	ND (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
Aroclor 1268	2.4 (0.2)		8082A		1	03/06/19 18:45	C9C0096	CC90407
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		126 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		135 %		30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		60 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903014

Quality Control Data

				Spike	Source	•••	%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0263		mg/kg wet	0.02500		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0259		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.0249		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		97	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Surrogate: Decachlorobiphenyl	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		98	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140	5	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		105	40-140	3	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		93	40-140	5	30	
Surrogate: Decachlorobiphenyl	0.0259		mg/kg wet	0.02500		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0263		mg/kg wet	0.02500		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.0254		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903014

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	
	Einel V/ house
F/ V	
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NK	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903014

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB/MM</u> Shipped/Delivered Via: <u>ESS Courier</u>	ESS Project ID: 1903014 Date Received: 3/1/2019 Project Due Date: 3/8/2019 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / NA
5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time?	Yes / No
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes / No / NA
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	=
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes / No a. Was there a need to contact the client? Yes / No Who was contacted? Date:	Time: By:	
Sample Container Proper Air Sufficient Number ID Container Present Volume	er Type Preservative Record pH (Cyan Pesticic	ide and 608.3 les)

01	320444	Yes	NA	Yes	4 oz. Jar - Unpres	NP
02	320443	Yes	NA	Yes	4 oz. Jar - Unpres	NP
03	320442	Yes	NA	Yes	4 oz. Jar - Unpres	NP
04	320441	Yes	NA	Yes	4 oz. Jar - Unpres	NP
05	320440	Yes	NA	Yes	4 oz. Jar - Unpres	NP
06	320439	Yes	NA	Yes	4 oz. Jar - Unpres	NP
07	320438	Yes	NA	Yes	4 oz. Jar - Unpres	NP
08	320437	Yes	NA	Yes	4 oz. Jar - Unpres	NP
09	320436	Yes	NA	Yes	4 oz. Jar - Unpres	NP
10	320435	Yes	NA	Yes	4 oz. Jar - Unpres	NP
2nd Review All contain Are barcode Are all nece Completed By:	v eers scanned a labels on col essary stickers	I Into stora rrect contair attached?	ge/lab hers?		Ves / No Yes / No Yes / No Date & Time:	9 1750
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Division of	I nielsch Engir	neton Pl 02040	h	Regulatory State:	Rhode Island	Limits	Limits										
185 France	IS AVENUE, UIS	(401) 461-448	, 6	ls th	is project for any of the followi	Electon	ic [Limi	t Check	ker							
101. (401) 4	horatory.com	(401) 401-440	~	МА-МСР	CT-RCP RGP	Deliverab	les	✓] Other	r (Please	Specifiy	<u>n → PDF</u>	T		77	<u> </u>		
10 00 00 00 00 00 00 00 00 00 00 00 00 0	Coneco Eng	npany Name ineers and Sc	ientists	Project # 5675.F	Project Nam Rewtucket 1 Control House, 6 Th		82										
Contact Person Mark Zoller					Address 4 First Street		alysis	od 80									
	City		S	tate	Zip Code 02324	5675.F	An	[ŧ		1						4	
Telephone Number FAX			FAX	Number	Email Addre jaevazelis,mzoller,kloftus	ss @coneco.com		by M									
ESS Lab	Collection Date	Collection	Sample Type	Sample Matrix	Sam	ple ID		PCBs									
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5	2/28/19	12:02pm	Grab	Paint	PS-84		X		╉┼		┥┽		$\left - \right $		┼╌┼╴	+	
6	2/28/19	No3pm	Grab	Paint	75-85				┟╺╉╴	┾╌┼╸			┼┼		┼╼┼╴	+	
7	2/28/19	12:05pm	Grab	Point	<u> </u>		<u> </u>	\bigcirc		┽╉	╶╄╸┞╸		+-	┞╴┠╴		┨╌╉╴	-
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9	2/28/19	12:08pm	Grab	Paint	13-82			\bigcirc		╉╌╆╴	┼╾┼╴		_+_	+		╉╌╂╸	-+
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C	ontainer Type	e:	AG-Amber Glass	s B-BOD Bottle	G-Glass P-Poly S-Sterile	V-Vial O-Other		* 1	┞──┼╼	┥╆	╶╄═╌┞╸			╀╴┠	-+-	┼╼╀	+
Prese	ervation Code	: 1-Non Preserve	ed 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6	-Methanol 7-Na2S2O3 8-ZnAce, Nac		o is-oale	. '-	┢╌╋╌	<u> </u>		-+-+				+ +	-
						Number of C	Jontamers	•	<u> </u>		_! _!			·			
		Laborato	rv Use Only		Sampled by : KML/MJN	1											
Coole	er Present:		_		Comments: National Grid Project, WS	Please SI	oecify "Oth Net Ex	ner" p HTaut	reserva	tive and	contain Method	ers type - 3540	s in this Repo	s space (fr Or	, Yweig	nt,	
Sea	ils Intact:			_	Homogenize sample	, TSCA-Requir	ements,	, Pra	vide (full g	uta po	.cKinge	-				
Cooler 1	l'emperature:	<u> </u>	°.I.CEI	<u>ic</u>	- (Cianatura Data 9 Tima)	Retinguished B	v: (Signatur	e, Da	te & Tim	ie)		eceived I	By: (Sig	nature,	Date &	≰ Time)	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1903015

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:45 pm, Mar 08, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903015

SAMPLE RECEIPT

The following samples were received on March 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1903015-01	PS-90	Solid	8082A
1903015-02	PS-91	Solid	8082A
1903015-03	PS-92	Solid	8082A
1903015-04	PS-93	Solid	8082A
1903015-05	PS-94	Solid	8082A
1903015-06	PS-95	Solid	8082A
1903015-07	PS-96	Solid	8082A
1903015-08	PS-97	Solid	8082A
1903015-09	PS-98	Solid	8082A
1903015-10	PS-99	Solid	8082A
1903015-11	PS-100	Solid	8082A
1903015-12	DUP-01	Solid	8082A
1903015-13	DUP-02	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903015

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl (198% @ 30-150%), Decachlorobiphenyl [2C] (207% @ 30-150%)
Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl (261% @ 30-150%), Decachlorobiphenyl [2C] (261% @ 30-150%)
Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl (172% @ 30-150%), Decachlorobiphenyl [2C] (177% @ 30-150%)
Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl (179% @ 30-150%), Decachlorobiphenyl [2C] (187% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903015

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-90 Date Sampled: 02/28/19 12:10 Percent Solids: N/A Initial Volume: 3.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/07/19 9:53	Sequence C9C0095	<u>Batch</u> CC90408
Aroclor 1221	ND (0.2)		8082A		1	03/07/19 9:53	C9C0095	CC90408
Aroclor 1232	ND (0.2)		8082A		1	03/07/19 9:53	C9C0095	CC90408
Aroclor 1242	ND (0.2)		8082A		1	03/07/19 9:53	C9C0095	CC90408
Aroclor 1248	ND (0.2)		8082A		1	03/07/19 9:53	C9C0095	CC90408
Aroclor 1254	ND (0.2)		8082A		1	03/07/19 9:53	C9C0095	CC90408
Aroclor 1260	20.2 (1.6)		8082A		10	03/06/19 16:03	C9C0095	CC90408
Aroclor 1262	ND (0.2)		8082A		1	03/07/19 9:53	C9C0095	CC90408
Aroclor 1268	2.3 (0.2)		8082A		1	03/07/19 9:53	C9C0095	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		198 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		207 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		59 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-91 Date Sampled: 02/28/19 12:18 Percent Solids: N/A Initial Volume: 1.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.4)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 03/05/19 16:45	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
Aroclor 1232	ND (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
Aroclor 1242	ND (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
Aroclor 1248	ND (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
Aroclor 1254	ND (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
Aroclor 1260	12.3 (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
Aroclor 1262	ND (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
Aroclor 1268	ND (0.4)		8082A		1	03/05/19 16:45	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-92 Date Sampled: 02/28/19 12:34 Percent Solids: N/A Initial Volume: 1.36 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.4)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/05/19 17:04	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
Aroclor 1232	ND (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
Aroclor 1242	ND (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
Aroclor 1248	ND (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
Aroclor 1254	ND (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
Aroclor 1260	9.8 (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
Aroclor 1262	ND (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
Aroclor 1268	ND (0.4)		8082A		1	03/05/19 17:04	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		79 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-93 Date Sampled: 02/28/19 12:48 Percent Solids: N/A Initial Volume: 1.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.4)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/05/19 17:23	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
Aroclor 1232	ND (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
Aroclor 1242	ND (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
Aroclor 1248	ND (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
Aroclor 1254	ND (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
Aroclor 1260	7.5 (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
Aroclor 1262	ND (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
Aroclor 1268	ND (0.4)		8082A		1	03/05/19 17:23	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		120 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		126 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-94 Date Sampled: 02/28/19 13:02 Percent Solids: N/A Initial Volume: 1.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.4)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/06/19 16:22	Sequence C9C0095	<u>Batch</u> CC90408
Aroclor 1221	ND (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
Aroclor 1232	ND (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
Aroclor 1242	ND (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
Aroclor 1248	ND (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
Aroclor 1254	ND (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
Aroclor 1260	9.3 (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
Aroclor 1262	ND (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
Aroclor 1268	1.3 (0.4)		8082A		1	03/06/19 16:22	C9C0095	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		149 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		152 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-95 Date Sampled: 02/28/19 13:12 Percent Solids: N/A Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 03/07/19_10:12	Sequence C9C0095	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/07/19 10:12	C9C0095	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/07/19 10:12	C9C0095	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/07/19 10:12	C9C0095	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/07/19 10:12	C9C0095	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/07/19 10:12	C9C0095	CC90408
Aroclor 1260 [2C]	8.3 (1.0)		8082A		10	03/06/19 16:41	C9C0095	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/07/19 10:12	C9C0095	CC90408
Aroclor 1268	0.9 (0.1)		8082A		1	03/07/19 10:12	C9C0095	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		261 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		261 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		49 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-96 Date Sampled: 02/28/19 13:20 Percent Solids: N/A Initial Volume: 5.24 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/05/19 18:20	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/05/19 18:20	C9C0059	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/05/19 18:20	C9C0059	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/05/19 18:20	C9C0059	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/05/19 18:20	C9C0059	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/05/19 18:20	C9C0059	CC90408
Aroclor 1260 [2C]	6.7 (1.0)		8082A		10	03/06/19 17:00	C9C0059	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/05/19 18:20	C9C0059	CC90408
Aroclor 1268	ND (0.1)		8082A		1	03/05/19 18:20	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-97 Date Sampled: 02/28/19 13:22 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 03/07/19_10:31	Sequence	<u>Batch</u> CC90408
Aroclor 1221	ND (0.1)		8082A		1	03/07/19 10:31	C9C0095	CC90408
Aroclor 1232	ND (0.1)		8082A		1	03/07/19 10:31	C9C0095	CC90408
Aroclor 1242	ND (0.1)		8082A		1	03/07/19 10:31	C9C0095	CC90408
Aroclor 1248	ND (0.1)		8082A		1	03/07/19 10:31	C9C0095	CC90408
Aroclor 1254	ND (0.1)		8082A		1	03/07/19 10:31	C9C0095	CC90408
Aroclor 1260 [2C]	9.0 (1.0)		8082A		10	03/06/19 17:19	C9C0095	CC90408
Aroclor 1262	ND (0.1)		8082A		1	03/07/19 10:31	C9C0095	CC90408
Aroclor 1268	0.7 (0.1)		8082A		1	03/07/19 10:31	C9C0095	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		172 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		177 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-98 Date Sampled: 02/28/19 13:30 Percent Solids: N/A Initial Volume: 5.36 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/05/19 18:59	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.09)		8082A		1	03/05/19 18:59	C9C0059	CC90408
Aroclor 1232	ND (0.09)		8082A		1	03/05/19 18:59	C9C0059	CC90408
Aroclor 1242	ND (0.09)		8082A		1	03/05/19 18:59	C9C0059	CC90408
Aroclor 1248	ND (0.09)		8082A		1	03/05/19 18:59	C9C0059	CC90408
Aroclor 1254	ND (0.09)		8082A		1	03/05/19 18:59	C9C0059	CC90408
Aroclor 1260	7.3 (0.9)		8082A		10	03/06/19 17:38	C9C0059	CC90408
Aroclor 1262	ND (0.09)		8082A		1	03/05/19 18:59	C9C0059	CC90408
Aroclor 1268	ND (0.09)		8082A		1	03/05/19 18:59	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		50 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		57 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-99 Date Sampled: 02/28/19 13:32 Percent Solids: N/A Initial Volume: 0.456 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/05/19 19:18	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
Aroclor 1232	ND (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
Aroclor 1242	ND (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
Aroclor 1248	ND (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
Aroclor 1254	ND (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
Aroclor 1260	12.7 (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
Aroclor 1262	ND (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
Aroclor 1268	ND (1.1)		8082A		1	03/05/19 19:18	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>98 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-100 Date Sampled: 02/28/19 13:40 Percent Solids: N/A Initial Volume: 1.63 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 03/07/19 10:50	Sequence C9C0095	<u>Batch</u> CC90408
Aroclor 1221	ND (0.3)		8082A		1	03/07/19 10:50	C9C0095	CC90408
Aroclor 1232	ND (0.3)		8082A		1	03/07/19 10:50	C9C0095	CC90408
Aroclor 1242	ND (0.3)		8082A		1	03/07/19 10:50	C9C0095	CC90408
Aroclor 1248	ND (0.3)		8082A		1	03/07/19 10:50	C9C0095	CC90408
Aroclor 1254	ND (0.3)		8082A		1	03/07/19 10:50	C9C0095	CC90408
Aroclor 1260	26.5 (3.1)		8082A		10	03/06/19 17:57	C9C0095	CC90408
Aroclor 1262	ND (0.3)		8082A		1	03/07/19 10:50	C9C0095	CC90408
Aroclor 1268	2.9 (0.3)		8082A		1	03/07/19 10:50	C9C0095	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		179 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		187 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-01 Date Sampled: 02/28/19 13:45 Percent Solids: N/A Initial Volume: 2.56 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 03/07/19 11:09	Sequence C9C0095	<u>Batch</u> CC90408
Aroclor 1221	ND (0.2)		8082A		1	03/07/19 11:09	C9C0095	CC90408
Aroclor 1232	ND (0.2)		8082A		1	03/07/19 11:09	C9C0095	CC90408
Aroclor 1242	ND (0.2)		8082A		1	03/07/19 11:09	C9C0095	CC90408
Aroclor 1248	ND (0.2)		8082A		1	03/07/19 11:09	C9C0095	CC90408
Aroclor 1254	ND (0.2)		8082A		1	03/07/19 11:09	C9C0095	CC90408
Aroclor 1260	52.9 (2.0)		8082A		10	03/06/19 18:17	C9C0095	CC90408
Aroclor 1262	ND (0.2)		8082A		1	03/07/19 11:09	C9C0095	CC90408
Aroclor 1268	6.4 (0.2)		8082A		1	03/07/19 11:09	C9C0095	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		124 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		133 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-02 Date Sampled: 02/28/19 14:00 Percent Solids: N/A Initial Volume: 1.86 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1903015 ESS Laboratory Sample ID: 1903015-13 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 3/4/19 15:35

Analyte Aroclor 1016	Results (MRL) ND (0.3)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 03/05/19 20:15	Sequence C9C0059	<u>Batch</u> CC90408
Aroclor 1221	ND (0.3)		8082A		1	03/05/19 20:15	C9C0059	CC90408
Aroclor 1232	ND (0.3)		8082A		1	03/05/19 20:15	C9C0059	CC90408
Aroclor 1242	ND (0.3)		8082A		1	03/05/19 20:15	C9C0059	CC90408
Aroclor 1248	ND (0.3)		8082A		1	03/05/19 20:15	C9C0059	CC90408
Aroclor 1254	ND (0.3)		8082A		1	03/05/19 20:15	C9C0059	CC90408
Aroclor 1260	19.8 (2.7)		8082A		10	03/06/19 18:36	C9C0059	CC90408
Aroclor 1262	ND (0.3)		8082A		1	03/05/19 20:15	C9C0059	CC90408
Aroclor 1268	ND (0.3)		8082A		1	03/05/19 20:15	C9C0059	CC90408
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903015

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CC90408 - 3540C										
Blank		0.02								
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	ma/ka wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenvl	0.0242		mg/kg wet	0.02500		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0232		mg/kg wet	0.02500		93	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0246		mg/kg wet	0.02500		98	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140			
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0216		mg/kg wet	0.02500		87	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		99	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	2	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		88	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140	3	30	
Surrogate: Decachlorobiphenyl	0.0237		mg/kg wet	0.02500		95	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0231		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0222		mg/kg wet	0.02500		89	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903015

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
F/V	Final volume
Ş.	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
AVg	Results reported as a mathematical average.
	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
KL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1903015

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1903015	
Shipped/Delivered Via: ESS Courses	Date Received: 3/1/2019	
	Project Due Date: 3/8/2019	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	
4. Is a Cooler Present? Yes Temp: <u>1.4</u> Iced with: <u>Ice</u>	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / NA
5. Was COC signed and dated by client?	10. Were any analyses received outside of hold time?	Yes / No
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes / No / NA
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date: Sample Receiving Notes: Date:	Time: By: Time: By:	
14. Was there a need to contact Project Manager? Yet / No a. Was there a need to contact the client? Yet / No Who was contacted? Date:	Time: By:	_

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608.3 Pesticides)
01 02 03 04 05 06 07 08 09 10 11 12 13	320457 320456 320455 320454 320453 320452 320451 320450 320450 320449 320448 320447 320446 320445	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	NA NA NA NA NA NA NA NA NA NA NA	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres 4 oz. Jar - Unpres	NP NP NP NP NP NP NP NP NP NP NP	Pesiddes
2nd Review							

2nd Review	
All containers scanned into storage/lab	Initials:
Are all necessary stir and an analysis	Yes /No
so on necessary spendoral actied?	Yes No
Completed	OLO DIF
Reviewed	Date & Time: / / / / / / / / / / / / / / / /
Ву:	Date & Time:

ESS Laboratory Sample and Cooler Receipt Checklist

Client: _C	Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID:	1903015
		Date Received:	3/1/2019
Delivered By:	214 214	2/19 1825	
·			

ESS L	aboratory	/			CHAIN OF CUSTO	DY	ESS La	b #	1902	215					
Division of	^r Thielsch Engi	ineering, Inc.		Turn Time	rn Time: 5-Day Rush:				Reporting DCBa c0 5 mm						
185 Franc	es Avenue, Cr	anston RI 0291	10	Regulatory State	ulatory State: Rhode Island										
Tel. (401)	461-7181 Fax	x (401) 461-44	86	ls t	Is this project for any of the following?:			iic 🔲	Limit Check	er 🛛 Exce	el				
www.essia	Doratory.com	mpany Name		Project #	CI-RCP RGP	Remediation	Deliveral	oles [/]	Other (Please \$	Specifiy) $\rightarrow P$					
	Coneco Eng	jineers and So	cientists	5675.F	Rutucketi Central House, 67	Therton Ave. Rowtheters	4								
	Co	ntact Person Mark Zoller			Address 4 First Street		sis	808							
	City		S	iate	Zip Code	PO#	haly.	po							
	Bridgewate	er mbor	Massa	chusetts	02324	5675.F	∣₹	leth							
	508-245-39	67		umber	jaevazelis,mzoller,klofti	ress us@coneco.com		N N							
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sar	npie ID		PCBs							
	2/28/19	12:10pm	Grab	Paint	P5-90			X							
2	2/28/19	12:18 pm	Grab	Paint	95-91			X							
3	2/28/19	12:34pm	Grab	Paint	P5-92			×							
4	2/28/19	12:48pm	Grab	Paint	P5-93			×							
5	2/28/19	NO2pm	Grab	Paint	PS-94			\times							
6	2/28/19	1:12 pm	Grab	Paint	P5-95			\times				_			
	2/28/19	1120 pm	Grab	Paint	95-96			×							
8	2/28/19	1:22pm	Grab	Paint	PS-97			\times							
9	2/28/19	11:30pm	Grab	Paint	P5-98	<u> </u>		\times							
10	2/28/19	1:32pm	Grab	Paint	P5-99			\times							
Co	ntainer Type:		AG-Amber Glass	B-BOD Bottle	G-Glass P-Poly S-Sterile	V-Vial O-Other		ag							
Preser	vation Code:	1-Non Preserved	1 2-HCI 3-H2SO4	-HNO3 5-NaOH 6-N	vlethanol 7-Na2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-DI H2C) 11-Other*	1	┢━┥╴╎╴╿						
	······		••••••••••••••••••••••••••••••••••••••			Number of Co	ontainers:								
		Laboratory	y Use Only		Sampled by : KML/MJN	/									
Cooler	Present:				Comments:	Please spe	cify "Othe	r" prese	rvative and co	ntainers type	s in this	space			
Seals	s Intact:				National Grid Project, Kse	- Monimal Soxwet	Extracti	an rec	EPA Method	35 40. Re	PLOT DO	, Waah	1.		
Cooler Te	emperature:	14	°CICE D	c	Homogenize Sampk	z, TSCA Requ	internents	, Prov	ide Full d	ata packa	ge	1			
Re	linquished by:	(Signature, Da	te & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature,	Date &	Time)	Received I	By: (Signa	iture, Dat	e & Tim	e)	
	AL /					Film	21.1.0	1 7	20 7	01	5.	1, 1,		00	
Re	Relinquished by: (Signature, Date & Time)			Reneived By:	/: (Signature, Date & Time) Relinquished By: (: (Signature, Date & Time) Received By: (Signature, Date					e & Time	e)	
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ESS L	aborator	,		(CHAIN OF CUS	TODY		ESS Lab	• #		191	MOI	5				
Division of	Thielsch Engi	neering, Inc.		Turn Time	: 5-Day	Rush:		Reportir	ng –								
185 Franc	es Avenue, Cra	anston RI 0291	0	Regulatory State: Rhode Island					- F		0.5 ppm						
Tel. (401)	461-7181 Fax	x (401) 461-44	86		his project for any of the	e following?:	–	Electon			Checker	Exc	el				
www.essla	iboratory.com	mnany Name		Project #		ect Name	Remediation	Denverab				\rightarrow					
	Coneco Eng	gineers and So	cientists	5675.F	Powjucket 1 Control House,	O Thurson Ave	2. Pawincket BI		2								
Contact Person Mark Zoller					Address 4 First Street			/sis	805								
	City		S	State Zip Code			PO #	lan	hod								
1	Enagewate	mber	FAX N	Number	UZ324 Emai	I Address	5075.F		Mei								
	508-245-39	67		· ·	jaevazelis,mzolle	r,kloftus@cor	neco.com		by								
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix		Sample ID			PCBs								
11	2/28/19	littopm	Grab	Paint	93-10	00			\times								
12	2/28/19	1:45pm	Grab	Paint	Dup-c	1			\times				<u> </u>				
12	2/28/19	2-000m	Grab	Paint	Dúp-c	5			\times								
	2/28/19	UM-	Grabun						\mathbf{X}	-							
	2/28/19		Grab						X								
	2/28/19		Grab						\mathbf{X}								
	2/28/19		Grab						*								
	2/28/19		Grab						*								
	2/28/19		Grab						\mathbf{X}								
	2/28/19		Grąb						×								
Co	ntainer Type	:	AG-Amber Glass	B-BOD Bottle	G-Glass P-Poly S-Si	terile V-Vial	O-Other		ag						_		
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-I	Methanol 7-Na2S2O3 8-Zn	Ace, NaOH 9-N	H4CI 10-DI H2C	0 11-Other*	1	+		+ $+$	┼ ├	+-+	+		
							Number of Co	ontainers:						<u> </u>			
		Laborator	y Use Only		Sampled by : KML	./MJM											
Cooler	Present:		_		Comments:		Please spe	ecify "Othe	r" pre	servative	e and cont	tainers typ	es in thi	s space			
Seal	s Intact:		_		Homogenia Grid Project	NOW SCN	WI SOXHIET	EXTRAction	1 per	C W	verned st	SHO, KEPO	rt Dry	weight	1 ,		
Cooler Te	emperature:	1.4	°C I CE R	C	romogenite Jan	re, 150A	requirement	nis, va	vid	e firll	datapo	LUKAGe					
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time) Re	elinquished By:	(Signature,	Date	& Time)		Received	l By: (Sig	nature, D	ate & T	īme)	
4	91A					F	rilae.	3/1/19	1	300	2	Cul	5.	3 11	19	130	0
R	Relinquished by (Signature, Date & Time)			Received By:	(Signature, Date & Time) Re	elinquisked By:	(Signature,	Date	& Time)		Received	d By: (Sig	nature; C	ate & T	'ime)	
E.	And when a later of the second				3119167	5			. –								
	O.O.	531	191550	- m-	- (· · · · · · · · · · · · · · · · · · ·												
,~		- 1	1.1.2.0	1											Page	24 of 2	4



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 19J0014

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance

REVIEWED

By ESS Laboratory at 4:39 pm, Oct 08, 2019

Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

SAMPLE RECEIPT

The following samples were received on October 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
19J0014-01	PS-101	Soil	8082A
19J0014-02	PS-102	Soil	8082A
19J0014-03	PS-103	Soil	8082A
19J0014-04	PS-104	Soil	8082A
19J0014-05	PS-105	Soil	8082A
19J0014-06	PS-106	Soil	8082A
19J0014-07	PS-107	Soil	8082A
19J0014-08	PS-108	Soil	8082A
19J0014-09	PS-109	Soil	8082A
19J0014-10	PS-110	Soil	8082A
19J0014-11	PS-111	Soil	8082A
19J0014-12	PS-112	Soil	8082A
19J0014-13	PS-113	Soil	8082A
19J0014-14	PS-114	Soil	8082A
19J0014-15	PS-115	Soil	8082A
19J0014-16	PS-116	Soil	8082A
19J0014-17	PS-117	Soil	8082A
19J0014-18	PS-118	Soil	8082A
19J0014-19	DUP-03	Soil	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

19J0014-03	<u>Surrogate recovery(ies) above upper control limit (S+).</u>
	Decachlorobiphenyl (170% @ 30-150%), Decachlorobiphenyl [2C] (178% @ 30-150%)
19J0014-07	<u>Surrogate recovery(ies) above upper control limit (S+).</u>
	Decachlorobiphenyl (157% @ 30-150%), Decachlorobiphenyl [2C] (171% @ 30-150%)
19J0014-08	<u>Surrogate recovery(ies) above upper control limit (S+).</u>
	Decachlorobiphenyl (181% @ 30-150%), Decachlorobiphenyl [2C] (194% @ 30-150%)
19J0014-13	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (345% @ 30-150%), Decachlorobiphenyl [2C] (351% @ 30-150%)
19J0014-15	Lower value is used due to matrix interferences (LC).
	Aroclor 1268 [2C]
19J0014-15	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1268 [2C]
19J0014-15	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (942% @ 30-150%), Decachlorobiphenyl [2C] (975% @ 30-150%)
19J0014-19	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (969% @ 30-150%), Decachlorobiphenyl [2C] (977% @ 30-150%)
CJ90205-MS2	<u>Matrix Spike recovery is below lower control limit (M-).</u>
	Aroclor 1260 (-9% @ 40-140%), Aroclor 1260 [2C] (-2% @ 40-140%)
CJ90206-MS1	Reported above the quantitation limit; Estimated value (E).
	Aroclor 1260 [2C]
CJ90206-MS1	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (847% @ 30-150%), Decachlorobiphenyl [2C] (860% @ 30-150%)
CJ90206-MSD1	<u>Reported above the quantitation limit; Estimated value (E).</u>
	Aroclor 1260, Aroclor 1260 [2C]
CJ90206-MSD1	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (783% @ 30-150%), Decachlorobiphenyl [2C] (772% @ 30-150%)

No other observations noted.

End of Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters Semivolatile Organics Internal Standard Information Semivolatile Organics Surrogate Information Volatile Organics Internal Standard Information Volatile Organics Surrogate Information EPH and VPH Alkane Lists

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-101 Date Sampled: 09/26/19 09:30 Percent Solids: N/A Initial Volume: 4.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-01 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:50	Sequence C9J0155	<u>Batch</u> CJ90205
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 18:50	C9J0155	CJ90205
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 18:50	C9J0155	CJ90205
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 18:50	C9J0155	CJ90205
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 18:50	C9J0155	CJ90205
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 18:50	C9J0155	CJ90205
Aroclor 1260	35.2 (1.2)		8082A		10	10/07/19 14:37	C9J0155	CJ90205
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 18:50	C9J0155	CJ90205
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 18:50	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>65 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-102 Date Sampled: 09/26/19 09:45 Percent Solids: N/A Initial Volume: 3.36 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-02 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 19:09	Sequence C9J0155	<u>Batch</u> CJ90205
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 19:09	C9J0155	CJ90205
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 19:09	C9J0155	CJ90205
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 19:09	C9J0155	CJ90205
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 19:09	C9J0155	CJ90205
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 19:09	C9J0155	CJ90205
Aroclor 1260	39.2 (1.5)		8082A		10	10/07/19 14:54	C9J0155	CJ90205
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 19:09	C9J0155	CJ90205
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 19:09	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-103 Date Sampled: 09/26/19 09:55 Percent Solids: N/A Initial Volume: 3.54 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-03 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.1) ND (0.1)		8082A 8082A		1	10/03/19 19:28	C9J0155	CJ90205 CJ90205
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 19:28	C9J0155	CJ90205
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 19:28	C9J0155	CJ90205
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 19:28	C9J0155	CJ90205
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 19:28	C9J0155	CJ90205
Aroclor 1260	31.6 (1.4)		8082A		10	10/07/19 15:13	C9J0155	CJ90205
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 19:28	C9J0155	CJ90205
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 19:28	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		170 %	<i>S+</i>	30-150				
Surrogate: Decachlorobiphenyl [2C]		178 %	S+	30-150				
Surrogate: Tetrachloro-m-xylene		59 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-104 Date Sampled: 09/26/19 10:30 Percent Solids: N/A Initial Volume: 1.46 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-04 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte Aroclor 1016	Results (MRL) ND (0.3)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 21:42	Sequence C9J0155	<u>Batch</u> CJ90205
Aroclor 1221	ND (0.3)		8082A		1	10/03/19 21:42	C9J0155	CJ90205
Aroclor 1232	ND (0.3)		8082A		1	10/03/19 21:42	C9J0155	CJ90205
Aroclor 1242	ND (0.3)		8082A		1	10/03/19 21:42	C9J0155	CJ90205
Aroclor 1248	ND (0.3)		8082A		1	10/03/19 21:42	C9J0155	CJ90205
Aroclor 1254	ND (0.3)		8082A		1	10/03/19 21:42	C9J0155	CJ90205
Aroclor 1260	64.2 (3.4)		8082A		10	10/07/19 15:32	C9J0155	CJ90205
Aroclor 1262	ND (0.3)		8082A		1	10/03/19 21:42	C9J0155	CJ90205
Aroclor 1268	ND (0.3)		8082A		1	10/03/19 21:42	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		128 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		136 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-105 Date Sampled: 09/26/19 11:15 Percent Solids: N/A Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-05 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 22:01	Sequence C9J0155	<u>Batch</u> CJ90205
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 22:01	C9J0155	CJ90205
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 22:01	C9J0155	CJ90205
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 22:01	C9J0155	CJ90205
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 22:01	C9J0155	CJ90205
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 22:01	C9J0155	CJ90205
Aroclor 1260	13.2 (0.5)		8082A		5	10/07/19 15:52	C9J0155	CJ90205
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 22:01	C9J0155	CJ90205
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 22:01	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-106 Date Sampled: 09/26/19 11:35 Percent Solids: N/A Initial Volume: 2.68 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-06 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.2)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 22:20	Sequence C9J0155	<u>Batch</u> CJ90205
Aroclor 1221	ND (0.2)		8082A		1	10/03/19 22:20	C9J0155	CJ90205
Aroclor 1232	ND (0.2)		8082A		1	10/03/19 22:20	C9J0155	CJ90205
Aroclor 1242	ND (0.2)		8082A		1	10/03/19 22:20	C9J0155	CJ90205
Aroclor 1248	ND (0.2)		8082A		1	10/03/19 22:20	C9J0155	CJ90205
Aroclor 1254	ND (0.2)		8082A		1	10/03/19 22:20	C9J0155	CJ90205
Aroclor 1260	21.2 (0.9)		8082A		5	10/07/19 16:11	C9J0155	CJ90205
Aroclor 1262	ND (0.2)		8082A		1	10/03/19 22:20	C9J0155	CJ90205
Aroclor 1268	ND (0.2)		8082A		1	10/03/19 22:20	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		75 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-107 Date Sampled: 09/26/19 11:50 Percent Solids: N/A Initial Volume: 3.55 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-07 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 23:17	Sequence C9J0155	<u>Batch</u> CJ90205
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 23:17	C9J0155	CJ90205
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 23:17	C9J0155	CJ90205
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 23:17	C9J0155	CJ90205
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 23:17	C9J0155	CJ90205
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 23:17	C9J0155	CJ90205
Aroclor 1260	24.7 (0.7)		8082A		5	10/07/19 17:08	C9J0155	CJ90205
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 23:17	C9J0155	CJ90205
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 23:17	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		157 %	S+	30-150				
Surrogate: Decachlorobiphenyl [2C]		171 %	S+	30-150				
Surrogate: Tetrachloro-m-xylene		<i>75 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-108 Date Sampled: 09/26/19 12:00 Percent Solids: N/A Initial Volume: 4.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-08 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:45

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 23:36	Sequence C9J0155	<u>Batch</u> CJ90205
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 23:36	C9J0155	CJ90205
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 23:36	C9J0155	CJ90205
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 23:36	C9J0155	CJ90205
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 23:36	C9J0155	CJ90205
Aroclor 1254	ND (0.1)		8082A		1	10/03/19 23:36	C9J0155	CJ90205
Aroclor 1260	21.6 (0.6)		8082A		5	10/07/19 17:28	C9J0155	CJ90205
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 23:36	C9J0155	CJ90205
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 23:36	C9J0155	CJ90205
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		181 %	<i>S+</i>	30-150				
Surrogate: Decachlorobiphenyl [2C]		194 %	S+	30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-109 Date Sampled: 09/26/19 12:40 Percent Solids: N/A Initial Volume: 5.44 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-09 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 10/03/19 16:40	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
Aroclor 1254 [2C]	3.0 (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
Aroclor 1260 [2C]	2.5 (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 16:40	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-110 Date Sampled: 09/26/19 12:45 Percent Solids: N/A Initial Volume: 5.56 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-10 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 17:00	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
Aroclor 1254 [2C]	1.9 (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
Aroclor 1260 [2C]	2.5 (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 17:00	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		63 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-111 Date Sampled: 09/26/19 12:50 Percent Solids: N/A Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-11 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 17:19	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
Aroclor 1254 [2C]	2.4 (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
Aroclor 1260 [2C]	2.5 (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 17:19	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		106 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-112 Date Sampled: 09/26/19 13:30 Percent Solids: N/A Initial Volume: 1.46 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-12 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL) ND (0.3)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 17:38	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
Aroclor 1232	ND (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
Aroclor 1242	ND (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
Aroclor 1248	ND (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
Aroclor 1254 [2C]	3.2 (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
Aroclor 1260 [2C]	4.0 (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
Aroclor 1262	ND (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
Aroclor 1268	ND (0.3)		8082A		1	10/03/19 17:38	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>89 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-113 Date Sampled: 09/27/19 10:00 Percent Solids: N/A Initial Volume: 5.56 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-13 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{\mathbf{I}}$	Analyzed	Sequence	Batch
Aroclor 1018	ND (0.09)		8082A 8082A		1	10/03/19 17:58	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 17:58	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 17:58	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 17:58	C9J0067	CJ90206
Aroclor 1254 [2C]	2.7 (0.09)		8082A		1	10/03/19 17:58	C9J0067	CJ90206
Aroclor 1260 [2C]	2.1 (0.09)		8082A		1	10/03/19 17:58	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 17:58	C9J0067	CJ90206
Aroclor 1268 [2C]	0.3 (0.09)		8082A		1	10/03/19 17:58	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		345 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		351 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		63 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-114 Date Sampled: 09/27/19 10:05 Percent Solids: N/A Initial Volume: 5.32 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-14 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL) ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:17	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
Aroclor 1254 [2C]	3.4 (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
Aroclor 1260 [2C]	2.4 (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 18:17	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>49 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		46 %		30-150				
Surrogate: Tetrachloro-m-xylene		44 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-115 Date Sampled: 09/27/19 10:10 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-15 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:36	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
Aroclor 1254 [2C]	2.2 (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
Aroclor 1260 [2C]	1.8 (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
Aroclor 1268 [2C]	P, LC 0.2 (0.1)		8082A		1	10/03/19 18:36	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		942 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		975 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-116 Date Sampled: 09/27/19 10:15 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-16 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 18:56	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
Aroclor 1254 [2C]	1.3 (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
Aroclor 1260 [2C]	0.7 (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 18:56	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		55 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		42 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		47 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-117 Date Sampled: 09/27/19 10:20 Percent Solids: N/A Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-17 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 19:15	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
Aroclor 1254 [2C]	3.7 (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
Aroclor 1260 [2C]	2.1 (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
Aroclor 1268	ND (0.1)		8082A		1	10/03/19 19:15	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		108 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		108 %		30-150				
Surrogate: Tetrachloro-m-xylene		63 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-118 Date Sampled: 09/27/19 10:25 Percent Solids: N/A Initial Volume: 5.38 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-18 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 19:34	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
Aroclor 1232	ND (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
Aroclor 1242	ND (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
Aroclor 1248	ND (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
Aroclor 1254 [2C]	1.3 (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
Aroclor 1260 [2C]	0.6 (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
Aroclor 1262	ND (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
Aroclor 1268	ND (0.09)		8082A		1	10/03/19 19:34	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		53 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-03 Date Sampled: 09/27/19 10:25 Percent Solids: N/A Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0014 ESS Laboratory Sample ID: 19J0014-19 Sample Matrix: Soil Units: mg/kg wet Analyst: MJV Prepared: 10/2/19 15:55

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/03/19 19:54	Sequence C9J0067	<u>Batch</u> CJ90206
Aroclor 1221	ND (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
Aroclor 1232	ND (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
Aroclor 1242	ND (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
Aroclor 1248	ND (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
Aroclor 1254 [2C]	3.0 (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
Aroclor 1260 [2C]	2.4 (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
Aroclor 1262	ND (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
Aroclor 1268	0.3 (0.1)		8082A		1	10/03/19 19:54	C9J0067	CJ90206
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		969 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		977 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CJ90205 - 3540C										
Arador 1016	ND	0.02	ma/ka wat							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Arodor 1221	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Arodor 1222	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0169		mg/kg wet	0.02500		68	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0170		mg/kg wet	0.02500		68	30-150			
Surrogate: Tetrachloro-m-xylene	0.0162		mg/kg wet	0.02500		65	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0162		mg/kg wet	0.02500		65	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		100	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		103	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		102	40-140			
	0.0101			0.00500		76	20.450			
Surrogate: Decachlorobiphenyl	0.0191		mg/kg wet	0.02500		70	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0187		mg/kg wet	0.02500		/5	30-150			
Surrogate: Tetrachloro-m-xylene	0.0196		mg/kg wet	0.02500		79 70	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0186		mg/kg wet	0.02500		/5	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		102	40-140	1	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		103	40-140	0.3	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		100	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		104	40-140	3	30	
Surrogate: Decachlorobiphenvl	0.0199		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene	0.0193		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0184		mg/kg wet	0.02500		74	30-150			
Matrix Spike Source: 19J0014-06	i									



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

Quality Control Data

					Spike	Source		%REC		RPD	
Analyte		Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CJ90205 - 3540	C										
Aroclor 1016		3.6	0.2	mg/kg wet	3.663	ND	99	40-140			
Aroclor 1016 [2C]		3.4	0.2	mg/kg wet	3.663	ND	92	40-140			
Aroclor 1260		20.9	0.9	mg/kg wet	3.663	21.2	NR	40-140			M-
Aroclor 1260 [2C]		19.9	0.9	mg/kg wet	3.663	20.0	NR	40-140			M-
Surrogate: Decachlorobi	phenyl	0.147		mg/kg wet	0.1832		80	30-150			
Surrogate: Decachlorobi	phenyl [2C]	0.152		mg/kg wet	0.1832		83	30-150			
Surrogate: Tetrachloro-n	n-xylene	0.147		mg/kg wet	0.1832		80	30-150			
Surrogate: Tetrachloro-n	n-xylene [2C]	0.139		mg/kg wet	0.1832		76	30-150			
Matrix Spike Dup	Source: 19J0014-06										
Aroclor 1016		4.1	0.2	mg/kg wet	4.255	ND	97	40-140	13	30	
Aroclor 1016 [2C]		4.0	0.2	mg/kg wet	4.255	ND	93	40-140	15	30	
Aroclor 1260		27.1	1.1	mg/kg wet	4.255	21.2	138	40-140	26	30	
Aroclor 1260 [2C]		25.7	1.1	mg/kg wet	4.255	20.0	134	40-140	25	30	
Surragata: Decachlorabi	nhony	0.171		mg/kg wet	0.2128		80	30-150			
Surrogate: Decachlorobi	phonyl [2C]	0.178		mg/kg wet	0.2128		83	30-150			
Surrogate: Tetrachloro-n	n-yvlene	0.166		mg/kg wet	0.2128		78	30-150			
Surrogate: Tetrachloro-n	n-xylene [2C]	0.156		mg/kg wet	0.2128		73	30-150			
Batch C190206 - 3540											
Blank											
Aroclor 1016		ND	0.02	ma/ka wet							
Aroclor 1016 [2C]		ND	0.02	ma/ka wet							
Aroclor 1221		ND	0.02	ma/ka wet							
Aroclor 1221 [2C]		ND	0.02	mg/kg wet							
Aroclor 1232		ND	0.02	mg/kg wet							
Aroclor 1232 [2C]		ND	0.02	mg/kg wet							
Aroclor 1242		ND	0.02	mg/kg wet							
Aroclor 1242 [2C]		ND	0.02	mg/kg wet							
Aroclor 1248		ND	0.02	mg/kg wet							
Aroclor 1248 [2C]		ND	0.02	mg/kg wet							
Aroclor 1254		ND	0.02	mg/kg wet							
Aroclor 1254 [2C]		ND	0.02	mg/kg wet							
Aroclor 1260		ND	0.02	mg/kg wet							
Aroclor 1260 [2C]		ND	0.02	mg/kg wet							
Aroclor 1262		ND	0.02	mg/kg wet							
Aroclor 1262 [2C]		ND	0.02	mg/kg wet							
Aroclor 1268		ND	0.02	mg/kg wet							
Aroclor 1268 [2C]		ND	0.02	mg/kg wet							
Comparte C. 11. 11	a h a su d	0 0206		ma/ka wet	0 02500		82	30-150			
Surrogate: Decachiorobi	phonyl [2C]	0.0200		mg/ka wet	0.02500		81	30-150			
Surrogate: Decachiorobi		0.0181		ma/ka wet	0.02500		72	30-150			
Surrogate: Tetrachloro r	n-xyicile n=xylono [20]	0.0191		mg/ka wet	0.02500		- 77	30-150			
	אינווכ נצכן			5,							
103											


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

Quality Control Data

Batch CJ90206 - 3540C Batch CJ90206 - 3540C Batch CJ90206 - 3540C Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 85 40-140 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 92 40-140	
Batch CJ90206 - 3540C Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 85 40-140 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 92 40-140	
Aroclor 1016 0.4 0.02 mg/kg wet 0.500 85 40-140 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 92 40-140	
Aroclor 1016 [2C] 0.5 0.02 ma/ka wet 0.5000 92 40-140	
Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 90 40-140	
Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 100 40-140	
Surrogate: Decachlorobiphenyl 0.0200 mg/kg wet 0.02500 80 30-150	
Surrogate: Decachlorobiphenyl [2C] 0.0197 mg/kg wet 0.02500 79 30-150	
Surrogate: Tetrachloro-m-xylene 0.0188 mg/kg wet 0.02500 75 30-150	
Surrogate: Tetrachloro-m-xylene [2C] 0.0191 mg/kg wet 0.02500 77 30-150	
LCS Dup	
Aroclor 1016 0.4 0.02 mg/kg wet 0.5000 88 40-140 4 30	
Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 95 40-140 3 30	
Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 93 40-140 3 30	
Aroclor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 102 40-140 2 30	
Surrogate: Decachlorohinbenv/ 0.0203 mg/kg wet 0.02500 81 30-150	
Surrogate: Decachlorobinbenvl [2C] 0.0201 mg/kg wet 0.02500 80 30-150	
Surrogate: Tetrachloro-m-xvlene 0.0196 mg/kg wet 0.02500 78 30-150	
Surrogate: Tetrachloro-m-xylene [2C] 0.0200 mg/kg wet 0.02500 80 30-150	
Matrix Spike Source: 1930014-19	
 Aroclor 1016 1.7 0.1 mg/kg wet 1.992 ND 87 40-140	
Aroclor 1016 [2C] 1.9 0.1 mg/kg wet 1.992 ND 95 40-140	
Aroclor 1260 3.9 0.1 mg/kg wet 1.992 2.3 80 40-140	
Aroclor 1260 [2C] 4.1 0.1 mg/kg wet 1.992 2.4 84 40-140	E
Surrogate: Decaeblorphinbenv/ 0.844 mg/kg wet 0.09960 847 30-150	SM
Surrogate: Decachlorobinhenv/ [2C] 0.857 mg/kg wet 0.09960 860 30-150	SM
Surrogate: Tetrachloro-m-xvlene 0.0627 mg/kg wet 0.09960 63 30-150	
Surrogate: Tetrachloro-m-xylene [2C] 0.0657 mg/kg wet 0.09960 66 30-150	
Matrix Spike Dup Source: 1930014-19	
Aroclor 1016 1.9 0.1 mg/kg wet 1.988 ND 96 40-140 10 30	
Aroclor 1016 [2C] 1.9 0.1 mg/kg wet 1.988 ND 97 40-140 2 30	
Aroclor 1260 4.2 0.1 mg/kg wet 1.988 2.3 95 40-140 8 30	Е
Aroclor 1260 [2C] 4.2 0.1 mg/kg wet 1.988 2.4 90 40-140 3 30	Е
Surrogate: Decachlorobinhenvi 0.778 mg/kg wet 0.09940 783 30-150	SM
Surrogate: Decachlorobinhenvl [2C] 0.767 mg/kg wet 0.09940 772 30-150	SM
Surrogate: Tetrachloro-m-xvlene 0.0665 mg/kg wet 0.09940 67 30-150	
Surrogate: Tetrachloro-m-xylene [2C] 0.0694 mg/kg wet 0.09940 70 30-150	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
S+	Surrogate recovery(ies) above upper control limit (S+).
Р	Percent difference between primary and confirmation results exceeds 40% (P).
M-	Matrix Spike recovery is below lower control limit (M-).
LC	Lower value is used due to matrix interferences (LC).
Е	Reported above the quantitation limit; Estimated value (E).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	
	Initial Volume
F/V	
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes the concentration of the C0 C10 gramatic range.
3 Awa	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NR	Results reported as a mathematical average.
	Calculated Analyte
SUB	Subcontracted analysis: see attached report
RL	Reporting Limit
FDI	Estimated Detection Limit
ME	Membrone Filtration
MDN	Most Probably Number
TNTC	
CEU	Colony Forming Units
ULU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0014

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB/MM</u> Shipped/Delivered Via: <u>ESS Courier</u>	ESS Project ID: 19J0014 Date Received: 10/1/2019 Project Due Date: 10/8/2019 Days for Project: 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM?	8. Were samples received intact?	Yes
4. Is a Cooler Present?	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / NA
Temp: 0.4 loed with: Ice	10. Were any analyses received outside of hold time?	Yes No
5. Was COC signed and dated by client? Yes		
		· · · · · · · · · · · · · · · · · · ·
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes No Yes No Yes / No / NA
13. Are the samples properly preserved? Yes / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes No a. Was there a need to contact the client? Yes No Who was contacted? Date:) Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	393637	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	393636	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	393635	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	393634	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	393633	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	393632	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	393631	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
80	393630	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	393629	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	393628	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	393627	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	393626	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	393625	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	393624	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	393623	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
16	393622	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
17	393621	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	393620	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
1 9	393619	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

z. Jar - Unpres Initials_

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/M	A ESS Project ID:	<u> 19J0014 </u>
	Date Received:	10/1/2019
Are barcode labels on correct containers?	Yes / No	
Are all Flashpoint stickers attached/container ID # circled?	Yes / No / NA	
Are all Hex Chrome stickers attached?	Yes / No (NA)	
Are all QC stickers attached?	Yes / No / NA	
Are VOA stickers attached if bubbles noted?	Yes / No / NA	
\sim		
Completed A 1	ist. to	19no
Ву:	Date & Time: <i>[U]////9</i>	
Reviewed	110	2052
By:	_ Date & Time:	
Delivered By:	10/1/19	9027

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ESS L	aboratory	,		C	HAIN OF CUSTOR	γ	ESS La) #	ľ	150	30	14						
Division of Thielsch Engineering, Inc. Turn Time					5-Day Rush Re			Reporting PCBs <0.5 mg/kg										
185 France	es Avenue, Cra	anston RI 0291	0	Regulatory State	Rhode Island	Limits												
Tel. (401)	461-7181 Fax	c (401) 461-448	86	ls thi	is project for any of the follow	Elector												
www.esslaboratory.com O CT RCP						Deliveral		⊡ot	her (Plea	se Speci	y →)	· · · ·	<u></u>					
	Con Coneco Eng	npany Name jineers and Sci	entists	Project # 5675.F	Project Nat Pawtucket 1 Control House, 6 Thor													
	Cor N	ntact Person Mark Zoller			Address 4 First Street	llysis												
	City		SI	ate	Zip Code	PO #												
Т	elephone Nur	nber	FAX N	lumber	Email Addre	 ess ടത്രാനന്റെ com		8082	õ									
ESS Lab	Collection	Collection	Sample Type	Sample Matrix	DDiffenetses Sam		CBS	WS/W8										
01	9/26/19	9:30 a.m.	Grab	Solid	PS	<u> </u>	x											
02	9/26/19	9:45 a.m.	Grab	Solid	PS		х									\perp		
03	9/26/19	9:55 a.m.	Grab	Solid	PS		x										\square	
04	9/26/19	10:30 a.m.	Grab	Solid	PS		X			_								
05	9/26/19	11:15 a.m.	Grab	Solid	PS		X								$\left \right $			
06	9/26/19	11:35 a.m.	Grab	Solid	PS		X	Х					+			_+		
07	9/26/19	11:50 a.m.	Grab	Solid	PS		X						┢╌┠╴		╀╴╏			
08	9/26/19	12:00 p.m.	Grab	Solid	PS	S-108 		X						+ +		+		
09	9/26/19	12:40 p.m.	Grab	Solid	PS	5-109 	·						_					
10	9/26/19	12:45 p.m.	Grab	Solid	PS	S-110		×							_		\rightarrow	
Co	ntainer Type:	AC-Air Casset	tte AG-Amber Glas	s B-BOD Bottle (C-Cubitainer G - Glass O-O	ther P-Poly S-Ste	rile V-Vial	AG							_		<u> </u>	
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 ml	_ 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other'	9			_			┼┈┼			—	
Prese	rvation Code:	1-Non Preserved	d 2-HCl 3-H2SO4	4-HNO3 5-NaOH 6-M	lethanol 7-Na2S2O3 8-ZnAce, NaC	0H 9-NH4CI 10-DI H20	0 11-Other*	11						+			+	
						or of Containers per	Sample:	1 1										
		Laborator	y Use Only		Sampled by: DJD/LGG		a sife "Oth				and or	ntain	ore bu	ne in fi	hie en:			
Cooler	r Present:	<u> </u>	-		Comments:	Please sp	ecny Ouk	a b	esei	vauve	anu co	Jucan	ici s typ					
Seal	s Intact:	RA	-	· ~ 11	National G	Brid Project, Use Mar	ual Soxhlei	Extr	actio	n per E	PA Me	thod 3	3540, R	eport D	ry Wei	ght, 1	I=ICE	
Cooler T	emperature:		°C ile territ	0.9	Homogen	ize Sample TSCA Re	quirements	, Pro	vide	Full Da	ta Pac		bceiver	By: (S	ionatur	e Daf	e & Ti	
	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Reinquistied By	. (Signature	;, Da	ie or		+ /			<u></u>		<u>n</u>	<u> </u>	<u></u>
Dais	Dain Louna 9/30/19 14 pm. 2 X/				2-10/1/19 12:30 Zach 10/1/19 16.37 10/11				<u> ('</u>	19 637								
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Kelinguished By	. (Signature	;, ∪a	18 Q	(inte)		$-\mathbf{f}$	eceived	- Uy. (O	gnatu	0, Da		

ESS L	aboratory	,		с	HAIN OF CUSTOD	Υ	ESS Lab	#	G	く	$\overline{\infty}$	14						
Division of	Thielsch Engi	neering, Inc.		Turn Time	5-Day Rush	Reportin	Reporting PCBs < 0.5 mg/kg											
185 France	es Avenue, Cra	anston RI 0291	0	Regulatory State	Rhode Island	Limits												
Tel. (401) 4	Tel. (401) 461-7181 Fax (401) 461-4486 Is thi				s project for any of the follow	Electon	ic Joo		nit Check	er Socifi				=xcel				
www.essla	boratory.com			O CT RCP	O MA MCP O H	Denverad	nes	20	ner (Piea		y →)	—			<u> </u>	ГТ		
	Concern Eng	npany Name	entiete	Project # 5675 F	Project Nan Pawtucket 1 Control House	wheelst 2										11		
	Coneco Eng	tact Person	ermoto	00/0.1	Address	is									1			
	Mark Zoller				4 First Street	alys										11		
	City	-	SI N	ate	2ip Code PO #													
	elephone Nur	nber	FAX N	lumber	Email Addre	955		082	0					1			1	
508-697-3191					jaevazalis, mzoller,kloftu	s@coneco.com		s 81	NSI									
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Sam		PCB	WS/I	_	╺╁╼╸╿		_	<u> </u>			╞─┤		
11	9/26/9	12:50 p.m.	Grab	Solid	PS		X			_					_	┟┈┥		
12	9/26/19	1:30 p.m.	Grab	Solid	PS	-112		X			\downarrow		+				┼╌╁	
13	9/27/19	10:00 a.m.	Grab	Solid	PS	-113		X				_					╞─┥	
14	9/27/19	10:05 a.m.	Grab	Solid	PS	-114		X			╺╁╼╌╎						╞──┤	
15	9/27/19	10:10 a.m.	Grab	Solid	PS		X									$ \rightarrow $		
16	9/27/19	10:15 a.m.	Grab	Solid	PS		X							$\left \right $				
17	9/27/19	10:20 a.m.	Grab	Solid	PS	-117		X							┼──┼		┝╌┤	
18	9/27/19	10:25 a.m.	Grab	Solid	PS	-118		X	-					_ -		_	╉┈┤	_
19	9/27/19	10:25 a.m.	Grab	Solid	DU	IP-03	<u>. </u>	X	X						+			
												_	-				+	
Co	ntainer Type:	AC-Air Casse	tte AG-Amber Gla	ass B-BOD Bottle	C-Cubitainer J-Jar O-Oth	her P-Poly S-Ste	rile V-Vial	AG								<u> </u>	+ - +	
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 ml	_ 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other"	9	-							+	+	-
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-1	AeOH 7-Na2S2O3 8-ZnAce, NaO	H 9-NH4CI 10-DI H2C	Somnlo:		-	╞╴┼		_					+	
						r or containers per	Sample.	1.				1		I	<u> </u>		I	نا
		Laborator	y Use Only		Sampled by : ACACHAR	$\square (\Omega) \square$	VD 66	<u>///(</u>	M	_/_^	<u>-~</u>	-		4l-1				
Coole	r Present:				Comments:	Please sp	ecify"Othe	er" p	rese	rvative	and co	ontaine	rs typ	es in thi	s spac	3		
Seal	s Intact:	nn-	-		National Grid Project, Use Ma	inual Soxhlet Extracti	on per EPA	Met	hod :	3540, F	eport E	Dry Wei	gh t, 11	=ICE				
Cooler T	emperature:		·c lieten	r 10.67	Homogenize Sample TSCA R	equirements, Provid	e Full Data	F					* + - +	Den (0):			Time	
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	: (Signature	e, Da	te &	(ime)	+ -		ceived	by: (Sig	nature,	Date 6	- rune	<u> </u>
	2			LAL	- 10/1/19 12:36	2-22	-10/119 16:37 A				Ľ		10/1	19	<u>163</u>	7	<u> </u>	
R	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By: (Signature, Date & Time) Received				By: (Sig	nature,	Date 8	، Time	<u>+) (</u>				
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20A0097

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 4:57 pm, Jan 14, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

SAMPLE RECEIPT

The following samples were received on January 07, 2020 for the analyses specified on the enclosed Chain of Custody Record.

nalysis
)82A
082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

20A0097-06Surrogate recovery(ies) below lower control limit (S-).
Decachlorobiphenyl (29% @ 30-150%)20A0097-07Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Decachlorobiphenyl (288% @ 30-150%), Decachlorobiphenyl [2C] (335% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-119 Date Sampled: 01/03/20 10:00 Percent Solids: N/A Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0097 ESS Laboratory Sample ID: 20A0097-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 17:30	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 17:30	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 17:30	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 17:30	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 17:30	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 17:30	C0A0124	CA00826
Aroclor 1260	11.1 (0.5)		8082A		5	01/13/20 23:00	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 17:30	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 17:30	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		48 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		49 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		79 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-120 Date Sampled: 01/03/20 10:10 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0097 ESS Laboratory Sample ID: 20A0097-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/10/20 15:06

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 23:58	Sequence C0A0195	<u>Batch</u> CA00909
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 23:58	C0A0195	CA00909
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 23:58	C0A0195	CA00909
Aroclor 1242	ND (0.1)		8082A		1	01/13/20 23:58	C0A0195	CA00909
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 23:58	C0A0195	CA00909
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 23:58	C0A0195	CA00909
Aroclor 1260	14.5 (0.5)		8082A		5	01/14/20 0:37	C0A0195	CA00909
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 23:58	C0A0195	CA00909
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 23:58	C0A0195	CA00909
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-121 Date Sampled: 01/03/20 10:20 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0097 ESS Laboratory Sample ID: 20A0097-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 18:08	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 18:08	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 18:08	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 18:08	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 18:08	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 18:08	C0A0124	CA00826
Aroclor 1260	9.7 (0.5)		8082A		5	01/14/20 11:11	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 18:08	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 18:08	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>45 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		53 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-122 Date Sampled: 01/03/20 11:00 Percent Solids: N/A Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0097 ESS Laboratory Sample ID: 20A0097-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 18:28	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 18:28	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 18:28	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 18:28	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 18:28	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 18:28	C0A0124	CA00826
Aroclor 1260	5.8 (0.5)		8082A		5	01/14/20 11:30	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 18:28	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 18:28	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		46 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		45 %		30-150				
Surrogate: Tetrachloro-m-xylene		53 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-123 Date Sampled: 01/03/20 11:10 Percent Solids: N/A Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0097 ESS Laboratory Sample ID: 20A0097-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 18:47	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
Aroclor 1260	3.3 (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 18:47	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>99 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		103 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-124 Date Sampled: 01/03/20 11:15 Percent Solids: N/A Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0097 ESS Laboratory Sample ID: 20A0097-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/8/20 16:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/09/20 19:06	Sequence C0A0124	<u>Batch</u> CA00826
Aroclor 1221	ND (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
Aroclor 1232	ND (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
Aroclor 1242	ND (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
Aroclor 1248	ND (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
Aroclor 1254	ND (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
Aroclor 1260	3.4 (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
Aroclor 1262	ND (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
Aroclor 1268	ND (0.1)		8082A		1	01/09/20 19:06	C0A0124	CA00826
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		29 %	<i>S</i> -	30-150				
Surrogate: Decachlorobiphenyl [2C]		30 %		30-150				
Surrogate: Tetrachloro-m-xylene		32 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		43 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-125 Date Sampled: 01/03/20 11:20 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0097 ESS Laboratory Sample ID: 20A0097-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 1/10/20 9:35

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/13/20 23:39	Sequence C0A0195	<u>Batch</u> CA00909
Aroclor 1221	ND (0.1)		8082A		1	01/13/20 23:39	C0A0195	CA00909
Aroclor 1232	ND (0.1)		8082A		1	01/13/20 23:39	C0A0195	CA00909
Aroclor 1242	0.2 (0.1)		8082A		1	01/13/20 23:39	C0A0195	CA00909
Aroclor 1248	ND (0.1)		8082A		1	01/13/20 23:39	C0A0195	CA00909
Aroclor 1254	ND (0.1)		8082A		1	01/13/20 23:39	C0A0195	CA00909
Aroclor 1260	6.9 (0.5)		8082A		5	01/14/20 0:18	C0A0195	CA00909
Aroclor 1262	ND (0.1)		8082A		1	01/13/20 23:39	C0A0195	CA00909
Aroclor 1268	ND (0.1)		8082A		1	01/13/20 23:39	C0A0195	CA00909
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		288 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		335 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

Quality Control Data

Analyte	Recult	MRI	l Inite	Spike	Source	%RFC	%REC	8 bu	RPD	Qualifier
	Result					JUNEC	LIIIIG	IXI'U		Qualifier
		8082A POIY	chiorinated E	sipnenyis	(PCB)					
Batch CA00826 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
	0.0162			0.00500		<i>c</i> 5	20.450			
Surrogate: Decachlorobiphenyl	0.0162		mg/kg wet	0.02500		65	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0167		mg/kg wet	0.02500		67	30-150			
Surrogate: Tetrachloro-m-xylene	0.0196		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0209		mg/kg wet	0.02500		83	30-150			
Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobinhenvl	0.0161		mg/kg wet	0.02500		65	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0172		mg/kg wet	0.02500		69	30-150			
185 Frances Ave	nue, Cranston, RI 029	10-2211 Dependabili	Tel: 401-461-71	81 Fa uality ◆	x: 401-461 Servic	-4486 e	http://www	.ESSLabor	atory.com	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Oualifier
,		8082A Polv	chlorinated F	Biphenvls	(PCB)			-		.
		0002/(101)		sipricityis	(100)					
Batch CA00826 - 3540C										
	0.0105		ma/ka wet	0 02500		79	30-150			
Surrogate: Tetrachloro-m-xylene	0.0195		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		ilig/kg wet	0.02500		09	50-150			
		0.02		0 5000		00	40.440			
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Surrogate: Decachlorobiphenyl	0.0197		mg/kg wet	0.02500		79	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0196		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		90	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		94	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		88	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Surragate: Decachlarahinhanul	0.0186		ma/ka wet	0.02500		75	30-150			
Surrogate: Decachlorobinhenyl [20]	0.0186		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-vylene	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0230		mg/kg wet	0.02500		92	30-150			
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	1	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		90	40-140	0.7	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	0.8	30	
	0.0100		ma/ka wet	0 02500		76	30-150			
Surrogate: Decachlorobiphenyl	0.0190		mg/kg wet	0.02500		70	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0224		mg/kg wet	0.02500		89	30-150			
	0.012						50 100			
Arodor 1016	0.5	0.05	ma/ka wat	0 5000		00	40.140	4	20	
Arodor 1016	0.5	0.05	mg/kg wet	0.5000		96	40-140	4	20	
Arodor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		80	40-140	2	20	
Arodor 1260	0.4	0.05	mg/kg wet	0.5000		09	40-140	1	20	
	0.4	0.05	mg/kg wet	0.5000		66	40-140	2	30	
Surrogate: Decachlorobiphenyl	0.0190		mg/kg wet	0.02500		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0188		mg/kg wet	0.02500		75	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0228		mg/kg wet	0.02500		91	30-150			
Batch CA00909 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							

185 Frances Avenue, Cranston, RI 02910-2211 Dependability

Tel: 401-461-7181 •

Quality

Fax: 401-461-4486

Service

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch CA00909 - 3540C										
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0270		mg/kg wet	0.02500		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0278		mg/kg wet	0.02500		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0245		mg/kg wet	0.02500		98	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		98	40-140			
Surrogate: Decachlorobiphenyl	0.0264		mg/kg wet	0.02500		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0277		mg/kg wet	0.02500		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.0229		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0246		mg/kg wet	0.02500		98	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		97	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140	1	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		94	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		100	40-140	2	30	
Surrogate: Decachlorobiphenvl	0.0265		mg/kg wet	0.02500		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0277		mg/kg wet	0.02500		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0242		mg/kg wet	0.02500		97	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
S-	Surrogate recovery(ies) below lower control limit (S-).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/ V F/V	Final Volume
17 V e	
8 1	Subcontracted analysis; see attached report
2	Range result excludes concentrations of target analytes eluting in that range.
2	Range result excludes the concentration of the C9-C10 aromatic range
Δνσ	Desults reported as a methomatical average
NR	No Recoverv
[CALC]	Calculated Analyte
SUB	Subcontracted analysis: see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units
010	Colony Forming Onits



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0097

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx *Sample added per client 1/9/20 LLB

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ESS Lab	508-697-319 Collection	Collection	Sample Type	Sample Matrix	Sam	ple ID		PCBS		_					
01	1/3/2020	10:00 a.m.	Grab	Solid	PS	-119		X		_ _			┡╄┞-		
02	1/3/2020	10:10 a.m.	Grab	Solid	PS	-120		X			<u> </u>	_ _ _			_
03	1/3/2020	10:20 a.m.	Grab	Solid	PS	-121		×							
04	1/3/2020	11:00 a.m.	Grab	Solid	PS	-122		X		_					
05	1/3/2020	11:10 a.m.	Grab	Solid	PS	-123		X					╏━╎╺╁		
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Co	ontainer Type:	AC-Air Casse	tte AG-Amber Gla	iss B-BOD Bottle	C-Cubitainer G - Glass O-C	other P-Poly S-S	terile V-Via		_				╄╾┼╼┼	-	
Cont	ainer Volume	1-100 mL 2	2-2.5 gal 3-250 m	L 4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 oz	2 9-4 0Z 10-8 0Z	20 11-Other	· 11	-+-+		╶┤╶╄╴		┧╺╋┈╺┾╸		
Prese	ervation Code	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	Methanol 7-Na2S2O3 8-ZnAce, Nac	on of Containers ne	r Sample						+ + +		
		Laboutt			Sampled by : LGG/CK		oumpion	<u> </u>							
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Tel (401)	461-7181 Fax	x (401) 461-448		Is thi	s project for any of the follow	ving?:						PDF			
www.essla	boratory.com	. ,		O CT RCP	O MA MCP O	RGP.	Delivera								
	Con	npany Name		Project #	Project Na	me mton Ave. Pawtucket RI	1								
	Coneco Eng	ineers and Sci	entists	5675.F	Address		<u>.</u>								
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ESS Lab	Collection	Collection	Sample Type	Sample Matrix	San		PCB PCB							+	
01	1/3/2020	10:00 a.m.	Grab	Solid	P		X		_ _	_		++	<u> _ </u>		
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C	ontainer Type	: AC-Air Casse	tte AG-Amber Gla	iss B-BOD Bollie	0 ml 6-11 7-V/OA 8-2.0	z 9-4 oz 10-8 oz	11-Othe	* 9	-						
Cont	ainer Volume	: 1-100 mL 2	2-2.5 gal 3-250 m	1 4-300 IIIL 5-50	Aothanal 7-Na2S2O3 8-ZnAce Na	OH 9-NH4CI 10-DI H	20 11-Other	· 11		- 1 - 1					
Prese	ervation Code	1-Non Preserve	d 2-HCI 3-H2504	4-HNO3 5-NaOH 0-N	Numb	er of Containers pe	r Sample:	1							
		Laborato	ry Use Only		Sampled by : LGG/CK	(L					<u></u>	<u> </u>			
Coole	er Present:	(Comments:	Please s	pecify "Oth	ter" pr	eservativ	e and co	ntainers	types in t	his space		
Sea	ils Intact:		-		National	Grid Project, Use Ma	anual Soxhle	et Extra	action per	EPA Met	hod 3540	, Report D	ory Weight	, 11=ICE	
Cooler "	Temperature:	-36	°C		Homoge	nize Sample TSCA F	Requiremen	ts, Pro	/ide Full D	ata Pack	age	ind By: (S	lionature	Date & T	ime)
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20F0217

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 4:56 pm, Jun 12, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

SAMPLE RECEIPT

The following samples were received on June 04, 2020 for the analyses specified on the enclosed Chain of Custody Record.

PCB Aroclor

Limited sample volume provided for requested matrix spike/matrix spike duplicate samples.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
20F0217-01	PS-126	Soil	8082A
20F0217-02	PS-127	Soil	8082A
20F0217-03	PS-128	Soil	8082A
20F0217-04	PS-129	Soil	8082A
20F0217-05	PS-130	Soil	8082A
20F0217-06	PS-131	Soil	8082A
20F0217-07	PS-132	Soil	8082A
20F0217-08	PS-133	Soil	8082A
20F0217-09	PS-134	Soil	8082A
20F0217-10	PS-135	Soil	8082A
20F0217-11	PS-136	Soil	8082A
20F0217-12	PS-137	Soil	8082A
20F0217-13	PS-138	Soil	8082A
20F0217-14	PS-139	Soil	8082A
20F0217-15	PS-140	Soil	6010C, 8082A
20F0217-16	PS-141	Soil	8082A
20F0217-17	DUP-04	Soil	8082A
20F0217-18	DUP-05	Soil	8082A
20F0217-19	DUP-06	Soil	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

20F0217-05	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (277% @ 30-150%), Decachlorobiphenyl [2C] (291% @ 30-150%)
20F0217-12	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (262% @ 30-150%), Decachlorobiphenyl [2C] (279% @ 30-150%)
20F0217-13	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (175% @ 30-150%), Decachlorobiphenyl [2C] (187% @ 30-150%)
20F0217-18	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (199% @ 30-150%), Decachlorobiphenyl [2C] (213% @ 30-150%)
DF00811-MSD1	<u>Reported above the quantitation limit; Estimated value (E).</u>
	Aroclor 1260

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters Semivolatile Organics Internal Standard Information Semivolatile Organics Surrogate Information Volatile Organics Internal Standard Information Volatile Organics Surrogate Information EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-126 Date Sampled: 05/28/20 13:00 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-01 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1254 [2C]	2.9 (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1260 [2C]	1.5 (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 19:29	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		98 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		106 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		59 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-127 Date Sampled: 05/28/20 13:05 Percent Solids: N/A Initial Volume: 4.99 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-02 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 19:49	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
Aroclor 1254 [2C]	3.5 (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
Aroclor 1260	2.0 (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 19:49	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>93 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		100 %		30-150				
Surrogate: Tetrachloro-m-xylene		53 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-128 Date Sampled: 05/28/20 13:10 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-03 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:09	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
Aroclor 1254 [2C]	2.9 (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
Aroclor 1260	1.3 (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 20:09	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>99 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		107 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-129 Date Sampled: 05/28/20 13:15 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-04 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:28	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
Aroclor 1254	3.9 (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
Aroclor 1260 [2C]	1.6 (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 20:28	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		96 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		102 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>59 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-130 Date Sampled: 05/28/20 13:20 Percent Solids: N/A Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-05 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

<u>Analyte</u> Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 06/09/20 20:48	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 20:48	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 20:48	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 20:48	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 20:48	D0F0151	DF00811
Aroclor 1254	6.6 (0.5)		8082A		5	06/11/20 3:31	D0F0151	DF00811
Aroclor 1260	10.1 (0.5)		8082A		5	06/11/20 3:31	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 20:48	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 20:48	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		277 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		291 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				


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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-131 Date Sampled: 05/29/20 12:00 Percent Solids: N/A Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-06 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 21:08	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 21:08	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 21:08	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 21:08	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 21:08	D0F0151	DF00811
Aroclor 1254	6.8 (0.5)		8082A		5	06/11/20 3:51	D0F0151	DF00811
Aroclor 1260	10.9 (0.5)		8082A		5	06/11/20 3:51	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 21:08	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 21:08	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>58 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-132 Date Sampled: 05/29/20 12:05 Percent Solids: N/A Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-07 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 21:28	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
Aroclor 1254	0.4 (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
Aroclor 1260 [2C]	0.6 (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 21:28	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-133 Date Sampled: 05/29/20 12:10 Percent Solids: N/A Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-08 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 21:47	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
Aroclor 1254	2.2 (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
Aroclor 1260	2.2 (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 21:47	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		68 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		115 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-134 Date Sampled: 05/29/20 12:15 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-09 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 22:07	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
Aroclor 1254	2.7 (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
Aroclor 1260 [2C]	3.4 (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 22:07	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		89 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>92 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-135 Date Sampled: 05/29/20 12:20 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-10 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 23:06	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
Aroclor 1254	2.5 (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
Aroclor 1260 [2C]	3.3 (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 23:06	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		110 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		117 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-136 Date Sampled: 05/29/20 12:25 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-11 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 23:26	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
Aroclor 1254	2.2 (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
Aroclor 1260	3.4 (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/09/20 23:26	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>79 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-137 Date Sampled: 05/29/20 12:30 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-12 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 2:23	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
Aroclor 1254	2.1 (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
Aroclor 1260	2.4 (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 2:23	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		262 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		279 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-138 Date Sampled: 05/29/20 12:35 Percent Solids: N/A Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-13 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 3:22	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 3:22	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 3:22	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 3:22	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 3:22	D0F0151	DF00811
Aroclor 1254	3.3 (0.1)		8082A		1	06/10/20 3:22	D0F0151	DF00811
Aroclor 1260	10.0 (0.5)		8082A		5	06/11/20 5:10	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 3:22	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 3:22	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		175 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		187 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-139 Date Sampled: 05/29/20 12:40 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-14 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 3:41	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 3:41	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 3:41	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 3:41	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 3:41	D0F0151	DF00811
Aroclor 1254	6.0 (0.5)		8082A		5	06/11/20 5:29	D0F0151	DF00811
Aroclor 1260	10.3 (0.5)		8082A		5	06/11/20 5:29	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 3:41	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 3:41	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>94 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-140 Date Sampled: 05/29/20 12:45 Percent Solids: N/A

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-15 Sample Matrix: Soil Units: mg/kg wet

Extraction Method: 3050B

Total Metals

<u>Analyte</u> Cadmium	<u>Results (MRL)</u> 14.2 (3.57)	MDL	<u>Method</u> 6010C	<u>Limit</u>	<u>DF</u> 1	<u>Analyst</u> KJK	<u>Analyzed</u> 06/09/20 16:41	<u>I/V</u> 0.28	<u>F/V</u> 100	Batch DF00858
Chromium	7200 (7.14)		6010C		1	KJK	06/09/20 16:41	0.28	100	DF00858
Lead	53200 (3570)		6010C		100	KJK	06/11/20 0:03	0.28	100	DF00858



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-140 Date Sampled: 05/29/20 12:45 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-15 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 4:01	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 4:01	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 4:01	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 4:01	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 4:01	D0F0151	DF00811
Aroclor 1254	5.6 (0.5)		8082A		5	06/11/20 5:49	D0F0151	DF00811
Aroclor 1260	9.3 (0.5)		8082A		5	06/11/20 5:49	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 4:01	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 4:01	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-141 Date Sampled: 05/29/20 12:50 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-16 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 4:21	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 4:21	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 4:21	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 4:21	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 4:21	D0F0151	DF00811
Aroclor 1254	5.4 (0.5)		8082A		5	06/11/20 6:09	D0F0151	DF00811
Aroclor 1260	7.5 (0.5)		8082A		5	06/11/20 6:09	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 4:21	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 4:21	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-04 Date Sampled: 05/29/20 12:16 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-17 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 4:40	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
Aroclor 1254	2.2 (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
Aroclor 1260 [2C]	2.8 (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 4:40	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-05 Date Sampled: 05/29/20 12:26 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-18 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 5:39	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
Aroclor 1254	1.6 (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
Aroclor 1260	1.8 (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 5:39	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		199 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		213 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-06 Date Sampled: 05/29/20 12:31 Percent Solids: N/A Initial Volume: 4 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0217 ESS Laboratory Sample ID: 20F0217-19 Sample Matrix: Soil Units: mg/kg wet Analyst: DMC Prepared: 6/8/20 13:14

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/10/20 6:38	Sequence D0F0151	<u>Batch</u> DF00811
Aroclor 1221	ND (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
Aroclor 1232	ND (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
Aroclor 1242	ND (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
Aroclor 1248	ND (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
Aroclor 1254	2.0 (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
Aroclor 1260	3.2 (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
Aroclor 1262	ND (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
Aroclor 1268	ND (0.1)		8082A		1	06/10/20 6:38	D0F0151	DF00811
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		63 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			Total Meta	als						
Batch DF00858 - 3050B										
Blank										
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
			5. 5 - 5							
Cadmium	107	1 59	ma/ka wet	118.0		90	80-120			
Chromium	288	3.17	ma/ka wet	299.0		96	80-120			
Lead	136	15.9	ma/ka wet	144.0		94	80-120			
	150	13.5	ing/kg wet	1110		71	00 120			
Codmium	107	1 22	ma/lia wat	110.0		01	00 100	0.4	20	
Chromium	107	1.33	mg/kg wet	118.0		91	80-120	0.4	20	
Lood	289	2.0/	mg/kg wet	299.0		97	00-120 80-120	0.2	20	
	137	13.3	mg/kg wet	144.0		72	00-120	0.6	20	
Reference		a								
Lead	4200	33.3	mg/kg wet	4490		94	83-113			
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE00811 - 35400										
Blank										
Aroclor 1016	ND	0.02	ma/ka wet							
Aroclor 1016 [2C]		0.02	mg/kg wet							
Aroclor 1221	ND	0.02	ma/ka wet							
Aroclor 1221		0.02	mg/kg wet							
Aroclor 1232	ND	0.02	ma/ka wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	ma/ka wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/ka wet							
Aroclor 1254 [2C]	ND	0.02	ma/ka wet							
Aroclor 1260	ND	0.02	mg/ka wet							
Aroclor 1260 [2C]	ND	0.02	ma/ka wet							
Aroclor 1262	ND	0.02	mg/ka wet							
Aroclor 1262 [2C]	ND	0.02	mg/ka wet							
Aroclor 1268	ND	0.02	mg/ka wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0229		mg/kg wet	0.02500		<i>91</i>	30-150			
Surrogate: Tetrachloro-m-xylene	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140			
185 Frances Aver	nue, Cranston, RI 029	10-2211	Tel: 401-461-71	81 Fa	x: 401-461	-4486	http://www	.ESSLabor	atory.com	
	-	Dependabil	ity + Q	uality 🔸	Servic	e	-			
									Pa	age 25 of 33



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

Quality Control Data

Appleto		Docult	MDI	1 10:40	Spike	Source	04.050	%REC		RPD	Qualifier
Analyte		Kesuit	MKL	UNITS	Level	Result	%REC	LIMITS	KPD	LIMIT	Qualifier
			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DF00811 - 354	10C										
Aroclor 1260		0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C]		0.4	0.02	mg/kg wet	0.5000		87	40-140			
Surrogate: Decachlorob	biphenyl	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorob	biphenyl [2C]	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro	-m-xylene	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro	-m-xylene [2C]	0.0210		mg/kg wet	0.02500		84	30-150			
LCS Dup											
Aroclor 1016		0.4	0.02	mg/kg wet	0.5000		85	40-140	0.1	30	
Aroclor 1016 [2C]		0.4	0.02	mg/kg wet	0.5000		85	40-140	0.5	30	
Aroclor 1260		0.4	0.02	mg/kg wet	0.5000		90	40-140	1	30	
Aroclor 1260 [2C]		0.4	0.02	mg/kg wet	0.5000		87	40-140	0.8	30	
Surrogate: Decachlorol	hinhenvl	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorol	hinhenvl [2C]	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro	-m-xvlene	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro	-m-xvlene [2C]	0.0206		mg/kg wet	0.02500		82	30-150			
Matrix Spike	Source: 20F0217-09										
Aroclor 1016		3.2	0.2	mg/kg wet	3.322	ND	95	40-140			
Aroclor 1016 [2C]		2.4	0.2	mg/kg wet	3.322	ND	72	40-140			
Aroclor 1260		6.4	0.2	mg/kg wet	3.322	2.8	109	40-140			
Aroclor 1260 [2C]		5.0	0.2	mg/kg wet	3.322	3.4	50	40-140			
Surrogate: Decachlorob	biphenyl	0.120		mg/kg wet	0.1661		72	30-150			
Surrogate: Decachlorol	biphenyl [2C]	0.128		mg/kg wet	0.1661			30-150			
Surrogate: Tetrachloro	-m-xylene	0.129		mg/kg wet	0.1661		78	30-150			
Surrogate: Tetrachloro	-m-xylene [2C]	0.133		mg/kg wet	0.1661		80	30-150			
Matrix Spike	Source: 20F0217-11										
Aroclor 1016		11.0	0.8	mg/kg wet	16.39	ND	67	40-140			
Aroclor 1016 [2C]		11.1	0.8	mg/kg wet	16.39	ND	68	40-140			
Aroclor 1260		13.3	0.8	mg/kg wet	16.39	3.4	60	40-140			
Aroclor 1260 [2C]		12.6	0.8	mg/kg wet	16.39	3.0	58	40-140			
Surrogate: Decachlorol	biphenyl	0.488		mg/kg wet	0.8197		60	30-150			
Surrogate: Decachlorob	biphenyl [2C]	0.520		mg/kg wet	0.8197		63	30-150			
Surrogate: Tetrachloro	-m-xylene	0.556		mg/kg wet	0.8197		68	30-150			
Surrogate: Tetrachloro	-m-xylene [2C]	0.600		mg/kg wet	0.8197		73	30-150			
Matrix Spike	Source: 20F0217-12										
Aroclor 1016		15.6	1.0	mg/kg wet	20.41	ND	76	40-140			
Aroclor 1016 [2C]		15.6	1.0	mg/kg wet	20.41	ND	76	40-140			
Aroclor 1260		17.0	1.0	mg/kg wet	20.41	2.4	72	40-140			
Aroclor 1260 [2C]		16.2	1.0	mg/kg wet	20.41	2.1	69	40-140			
Commenter D. 11		റ റെറ		ma/ka wet	1 020		88	30-150			
Surrogate: Decachlorob	pipnenyi	0.300		mg/kg wet	1.020		96	30-150			
Surrogate: Decachlorob	pipnenyi [2C]	0.806		ma/ka wet	1.020		79	30-150			
Surroyate: Tetrachloro	-ш-хунене	0.000			2.020			23 150			

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

Quality Control Data

					Spike	Source		%REC		RPD	
Analyte		Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			8082A Poly	ychlorinated E	Biphenyls	(PCB)					
Batch DF00811 - 35	540C										
Surrogate: Tetrachloro	o-m-xylene [2C]	0.838		mg/kg wet	1.020		82	30-150			
Matrix Spike	Source: 20F0217-17										
Aroclor 1016		8.1	0.5	mg/kg wet	9.804	ND	82	40-140			
Aroclor 1016 [2C]		7.1	0.5	mg/kg wet	9.804	ND	73	40-140			
Aroclor 1260		11.0	0.5	mg/kg wet	9.804	2.3	88	40-140			
Aroclor 1260 [2C]		9.4	0.5	mg/kg wet	9.804	2.8	67	40-140			
Surrogate: Decachloro	biphenvl	0.332		mg/kg wet	0.4902		68	30-150			
Surrogate: Decachloro	biphenyl [2C]	0.344		mg/kg wet	0.4902		70	30-150			
Surrogate: Tetrachloro	o-m-xylene	0.370		mg/kg wet	0.4902		75	30-150			
Surrogate: Tetrachloro	o-m-xylene [2C]	0.380		mg/kg wet	0.4902		78	30-150			
Matrix Spike	Source: 20F0217-18										
Aroclor 1016		15.0	1.0	mg/kg wet	19.61	ND	76	40-140			
Aroclor 1016 [2C]		14.9	1.0	mg/kg wet	19.61	ND	76	40-140			
Aroclor 1260		16.9	1.0	mg/kg wet	19.61	1.8	77	40-140			
Aroclor 1260 [2C]		16.0	1.0	mg/kg wet	19.61	1.6	74	40-140			
-		0.014		ma/ka wot	0 0004		02	20 150			
Surrogate: Decachlord	biphenyl	0.914		mg/kg wet	0.3004 N 0804		95 101	30-150			
Surrogate: Decachlord	obiphenyl [2C]	0.993		mg/kg wet	0.9004 N 0804		72	30-150			
Surrogate: Tetrachloro	o-m-xylene	0.718		mg/kg wet	0.9004 N 0804		75	30-150			
Surrogate: Tetrachloro	o-m-xylene [2C]	0.701		ilig/kg wet	0.9004		70	50-150			
Matrix Spike	Source: 20F0217-19										
Aroclor 1016		17.0	1.0	mg/kg wet	20.00	ND	85	40-140			
Aroclor 1016 [2C]		16.9	1.0	mg/kg wet	20.00	ND	84	40-140			
Aroclor 1260		20.6	1.0	mg/kg wet	20.00	3.2	87	40-140			
Aroclor 1260 [2C]		19.3	1.0	mg/kg wet	20.00	2.9	82	40-140			
Surrogate: Decachloro	biphenyl	0.813		mg/kg wet	1.000		81	30-150			
Surrogate: Decachloro	biphenyl [2C]	0.859		mg/kg wet	1.000		86	30-150			
Surrogate: Tetrachloro	o-m-xylene	0.815		mg/kg wet	1.000		82	30-150			
Surrogate: Tetrachloro	o-m-xylene [2C]	0.863		mg/kg wet	1.000		86	30-150			
Matrix Spike Dup	Source: 20F0217-09										
Aroclor 1016		3.4	0.2	mg/kg wet	3.322	ND	101	40-140	6	30	
Aroclor 1016 [2C]		2.6	0.2	mg/kg wet	3.322	ND	79	40-140	8	30	
Aroclor 1260		6.9	0.2	mg/kg wet	3.322	2.8	123	40-140	7	30	Е
Aroclor 1260 [2C]		5.3	0.2	mg/kg wet	3.322	3.4	58	40-140	5	30	
Surragatas Dagati-	history	0.130		ma/ka wet	0.1661		78	30-150			
Surrogate: Decachlord	ouprieny	0.143		mg/kg wet	0.1661		86	30-150			
Surrogate: Decacillor	n-m-vulene	0.142		mg/ka wet	0.1661		85	30-150			
Surrogate Tetrachlor	n-m-xvlene [20]	0.146		mg/kg wet	0.1661		88	30-150			
Matrix Spike Due	Source: 2050217-11	-		5.5							
Aroclor 1016	Junce, 20F0217-11	13.5	0.8	ma/ka wet	16 67	ND	81	40-140	20	30	
Aroclor 1016 [2C]		13.2	0.0	ma/ka wet	16 67	ND	79	40-140	17	30	
Aroclor 1260		16.5	0.8	mg/kg wet	16.67	3.4	79	40-140	22	30	
	105 5			T 1 401 461	01 -		1406	1.0.11			
	185 Frances Avenue, (Cranston, RI 029	710- 2211	1el: 401-461-71	81 Fa	x: 401-461-	4486	http://www	.ESSLabo	ratory.com	

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DF00811 - 3540C										
Aroclor 1260 [2C]	15.5	0.8	mg/kg wet	16.67	3.0	75	40-140	21	30	
Surrogate: Decachlorobiphenyl	0.622		mg/kg wet	0.8333		75	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.662		mg/kg wet	0.8333		79	30-150			
Surrogate: Tetrachloro-m-xylene	0.687		mg/kg wet	0.8333		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.707		mg/kg wet	0.8333		85	30-150			
Matrix Spike Dup Source: 20F0217-12										
Aroclor 1016	14.5	1.0	mg/kg wet	20.00	ND	72	40-140	7	30	
Aroclor 1016 [2C]	14.5	1.0	mg/kg wet	20.00	ND	72	40-140	7	30	
Aroclor 1260	16.4	1.0	mg/kg wet	20.00	2.4	70	40-140	4	30	
Aroclor 1260 [2C]	15.7	1.0	mg/kg wet	20.00	2.1	68	40-140	3	30	
Surrogate: Decachlorobiphenvl	0.852		mg/kg wet	1.000		85	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.915		mg/kg wet	1.000		<i>92</i>	30-150			
Surrogate: Tetrachloro-m-xylene	0.711		mg/kg wet	1.000		71	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.757		mg/kg wet	1.000		76	30-150			
Matrix Spike Dup Source: 20F0217-17										
Aroclor 1016	7.9	0.5	mg/kg wet	10.00	ND	79	40-140	2	30	
Aroclor 1016 [2C]	7.0	0.5	mg/kg wet	10.00	ND	70	40-140	2	30	
Aroclor 1260	10.8	0.5	mg/kg wet	10.00	2.3	85	40-140	2	30	
Aroclor 1260 [2C]	9.4	0.5	mg/kg wet	10.00	2.8	66	40-140	0.3	30	
Surraate. Decechlorabinbenul	0.336		mg/kg wet	0.5000		67	30-150			
Surrogate: Decachlorobiphenyl	0.353		mg/kg wet	0.5000		71	30-150			
Surrogate: Decachiorosphenyr [20]	0.358		mg/kg wet	0.5000		72	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.366		mg/kg wet	0.5000		73	30-150			
Matrix Spike Dup Source: 20E0217-18										
Aroclor 1016	13.8	0.9	ma/ka wet	17.86	ND	77	40-140	8	30	
Aroclor 1016 [2C]	13.7	0.9	ma/ka wet	17.86	ND	77	40-140	8	30	
Aroclor 1260	15.4	0.9	ma/ka wet	17.86	1.8	76	40-140	9	30	
Aroclor 1260 [2C]	14.6	0.9	mg/kg wet	17.86	1.6	73	40-140	9	30	
	0.700			0.0020		00	20.150			
Surrogate: Decachlorobiphenyl	0.799		mg/kg wet	0.8929		90	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.869		mg/kg wet	0.8929		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.703		mg/kg wet	0.8929		/9 02	20 150			
Surrogate: Tetrachloro-m-xylene [2C]	0.738		mg/kg wet	0.8929		83	30-130			
Matrix Spike Dup Source: 20F0217-19										
Aroclor 1016	13.7	0.9	mg/kg wet	17.86	ND	//	40-140	22	30	
Aroclor 1016 [2C]	13.5	0.9	mg/kg wet	17.86	ND	76	40-140	22	30	
Aroclor 1260	16.4	0.9	mg/kg wet	17.86	3.2	/4	40-140	22	30	
Aroclor 1260 [2C]	15.5	0.9	mg/kg wet	17.86	2.9	71	40-140	21	30	
Surrogate: Decachlorobiphenyl	0.630		mg/kg wet	0.8929		71	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.690		mg/kg wet	0.8929		77	30-150			
Surrogate: Tetrachloro-m-xylene	0.657		mg/kg wet	0.8929		74	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.678		mg/kg wet	0.8929		76	30-150			

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Е	Reported above the quantitation limit; Estimated value (E).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
	Detection Limit
I/ V F/V	Final Volume
17/ V	
8	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes the concentration of the $C_{1}C_{1}$ aromatic range
Δνσ	Provide result excludes the concentration of the C3-C10 aromatic range.
NR	No Recovery
	Calculated Analyte
SUB	Subcontracted analysis: see attached report
RL	Reporting Limit
FDI	Estimated Detection Limit
ME	Membrane Filtration
MDN	Most Drobably Number
TNTC	
CEU	Colony Forming Units
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0217

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB</u>	ESS Project ID: 20F0217 Date Received: 6/4/2020	
Shipped/Delivered Via: ESS Courier	Project Due Date: 6/11/2020 Days for Project: 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received infact?	Yes / No (NA)
4. Is a Cooler Present? Yes Temp: <u>1.2</u> Iced with: Ice	10. Were any analyses received outside of hold time?	Yes / No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No (NA)
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes No a. Was there a need to contact the client? Yes No Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	49806	Yes	N/A	Yes	4 oz. Jar	NP	
2	49807	Yes	N/A	Yes	4 oz. Jar	NP	
3	49808	Yes	N/A	Yes	4 oz. Jar	NP	
4	49809	Yes	N/A	Yes	4 oz. Jar	NP	
5	49810	Yes	N/A	Yes	4 oz. Jar	NP	
6	49811	Yes	N/A	Yes	4 oz. Jar	NP	
7	49812	Yes	N/A	Yes	4 oz. Jar	NP	
8	49813	Yes	N/A	Yes	4 oz. Jar	NP	
9	49814	Yes	N/A	Yes	4 oz. Jar	NP	
10	49815	Yes	N/A	Yes	4 oz. Jar	NP	
11	49816	Yes	N/A	Yes	4 oz. Jar	NP	
12	49817	Yes	N/A	Yes	4 oz. Jar	NP	
13	49818	Yes	N/A	Yes	4 oz. Jar	NP	
14	49819	Yes	N/A	Yes	4 oz. Jar	NP	
15	49820	Yes	N/A	Yes	4 oz. Jar	NP	
16	49821	Yes	N/A	Yes	4 oz. Jar	NP	
17	49822	Yes	N/A	Yes	4 oz. Jar	NP	

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Page 1/2

ESS Laboratory CHAIN OF CUSTODY Division of Thielsch Engineering, Inc. Turn Time (5-Day) Rush								b#		AC	502	$) \cap$)			<u></u>		
Division of	f Thielsch Eng	ineering, Inc.		Turn Time	(5-Day) Rush		Reporti	ng	6		$-\frac{1}{1}$							
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3		1:10 pm			PS-128			X										
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Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 ml	4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9									-+-	+1
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaC	0H 9-NH4CI 10-DI H2O	11-Other*	<u>1</u>			† †					+		+1
					Numbe	r of Containers per S	Sample:	Ϊ										
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Cooler	Present:				Comments:	Please spe	cify "Other	r" pro	eserv	ative a	nd con	ainer	s types	in this	space	°.U. 1	20	yn I,
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Cooler T	emperature: -	-6.111.2-	°C		Report dry weig	ht, humogenize	: samp	le,	TS	(A)	Kequi	KM	mHs, l	Foll .	yata	1al	loig-l	\sim
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Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 ml	L 4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9]
Prese	rvation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	lethanol 7-Na2S2O3 8-ZnAce, NaC	H 9-NH4CI 10-DI H2O	11-Other*	n.				\square			\Box		\square		\bot]
r		Labourte			Numbe	r of Containers per S	Sample:	11												-
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0016

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:53 pm, May 11, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21E0016-01	PS-142	Solid	8082A
21E0016-02	PS-143	Solid	8082A
21E0016-03	PS-144	Solid	8082A
21E0016-04	PS-145	Solid	8082A
21E0016-05	PS-146	Solid	8082A
21E0016-06	PS-147	Solid	8082A
21E0016-07	PS-148	Solid	8082A
21E0016-08	PS-149	Solid	8082A
21E0016-09	PS-150	Solid	8082A
21E0016-10	PS-151	Solid	8082A
21E0016-11	PS-152	Solid	8082A
21E0016-12	PS-153	Solid	8082A
21E0016-13	PS-154	Solid	8082A
21E0016-14	PS-155	Solid	8082A
21E0016-15	PS-156	Solid	8082A
21E0016-16	PS-157	Solid	8082A
21E0016-17	PS-158	Solid	8082A
21E0016-18	PS-159	Solid	8082A
21E0016-19	PS-160	Solid	8082A
21E0016-20	PS-161	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

21E0016-05	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (152% @ 30-150%)
21E0016-12	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (155% @ 30-150%)
21E0016-13	Lower value is used due to matrix interferences (LC).
	Aroclor 1260 [2C]
21E0016-13	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1260 [2C]
21E0016-17	Lower value is used due to matrix interferences (LC).
	Aroclor 1260 [2C]
21E0016-17	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1260 [2C]
D1E0123-CCV4	Continuing Calibration %Diff/Drift is above control limit (CD+).
	Aroclor 1232 (21% @ 20%), Aroclor 1232 [2C] (22% @ 20%)
DE10322-MS1	Matrix Spike recovery is below lower control limit (M-).
	Aroclor 1016 [2C] (38% @ 40-140%), Aroclor 1260 (25% @ 40-140%), Aroclor 1260 [2C] (21% @
	40-140%)
DE10322-MSD1	<u>Relative percent difference for duplicate is outside of criteria (D+).</u>
	Aroclor 1016 [2C] (31% @ 30%), Aroclor 1260 (36% @ 30%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-142 Date Sampled: 04/27/21 08:00 Percent Solids: N/A Initial Volume: 5.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte	Results (MRL)	MDL	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.1) ND (0.1)		8082A 8082A		1	05/04/21 14:28	D1E0040	DE10322 DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 14:28	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 14:28	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 14:28	D1E0040	DE10322
Aroclor 1254	1.3 (0.1)		8082A		1	05/04/21 14:28	D1E0040	DE10322
Aroclor 1260 [2C]	1.0 (0.1)		8082A		1	05/04/21 14:28	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 14:28	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 14:28	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		62 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		57 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-143 Date Sampled: 04/27/21 08:05 Percent Solids: N/A Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 14:48	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
Aroclor 1254	2.3 (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
Aroclor 1260	1.8 (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 14:48	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		105 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		102 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-144 Date Sampled: 04/27/21 08:10 Percent Solids: N/A Initial Volume: 5.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:08	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
Aroclor 1254	1.5 (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
Aroclor 1260	1.1 (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 15:08	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>58 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150				
Surrogate: Tetrachloro-m-xylene		63 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		55 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-145 Date Sampled: 04/27/21 08:15 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:28	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
Aroclor 1254	2.4 (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
Aroclor 1260	1.8 (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 15:28	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		113 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		105 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-146 Date Sampled: 04/27/21 08:20 Percent Solids: N/A Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:48	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
Aroclor 1254	2.2 (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
Aroclor 1260	1.6 (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 15:48	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		152 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		137 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-147 Date Sampled: 04/27/21 08:25 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 16:08	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
Aroclor 1254	0.6 (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
Aroclor 1260	0.3 (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 16:08	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		45 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		41 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		45 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-148 Date Sampled: 04/27/21 08:30 Percent Solids: N/A Initial Volume: 3.61 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 05/04/21 16:27	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
Aroclor 1254	1.8 (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
Aroclor 1260	1.3 (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 16:27	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-149 Date Sampled: 04/27/21 08:35 Percent Solids: N/A Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 17:27	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
Aroclor 1254	0.8 (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
Aroclor 1260	0.4 (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 17:27	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		51 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		46 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		50 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-150 Date Sampled: 04/27/21 08:40 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 17:47	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 17:47	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 17:47	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 17:47	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 17:47	D1E0040	DE10322
Aroclor 1254	10.7 (0.5)		8082A		5	05/06/21 1:41	D1E0040	DE10322
Aroclor 1260 [2C]	3.0 (0.1)		8082A		1	05/04/21 17:47	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 17:47	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 17:47	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-151 Date Sampled: 04/27/21 08:45 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-10 Sample Matrix: Solid Units: mg/kg wet Analyst: DMC Prepared: 5/6/21 16:45

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/08/21 1:39	Sequence D1E0123	<u>Batch</u> DE10609
Aroclor 1221	ND (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
Aroclor 1232	ND (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
Aroclor 1242	ND (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
Aroclor 1248	ND (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
Aroclor 1254 [2C]	0.6 (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
Aroclor 1262	ND (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
Aroclor 1268	ND (0.1)		8082A		1	05/08/21 1:39	D1E0123	DE10609
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		31 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		36 %		30-150				
Surrogate: Tetrachloro-m-xylene		35 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		42 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-152 Date Sampled: 04/27/21 08:50 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.1) ND (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322 DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322
Aroclor 1254	1.2 (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322
Aroclor 1260	0.4 (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 18:27	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		59 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-153 Date Sampled: 04/27/21 08:55 Percent Solids: N/A Initial Volume: 5.31 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 18:47	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
Aroclor 1254	3.1 (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
Aroclor 1260	1.6 (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
Aroclor 1268	0.4 (0.09)		8082A		1	05/04/21 18:47	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		155 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		141 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-154 Date Sampled: 04/27/21 09:00 Percent Solids: N/A Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-13 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 19:07	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
Aroclor 1254	2.7 (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
Aroclor 1260 [2C]	P, LC 1.0 (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 19:07	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		123 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		113 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		79 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-155 Date Sampled: 04/27/21 09:05 Percent Solids: N/A Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-14 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 19:27	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
Aroclor 1254	1.7 (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
Aroclor 1260	0.5 (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 19:27	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		41 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		38 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		48 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-156 Date Sampled: 04/27/21 09:10 Percent Solids: N/A Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-15 Sample Matrix: Solid Units: mg/kg wet Analyst: DMC Prepared: 5/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/10/21 12:35	Sequence D1E0142	<u>Batch</u> DE10705
Aroclor 1221	ND (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
Aroclor 1232	ND (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
Aroclor 1242	ND (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
Aroclor 1248	ND (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
Aroclor 1254 [2C]	1.4 (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
Aroclor 1260 [2C]	0.4 (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
Aroclor 1262	ND (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
Aroclor 1268	ND (0.1)		8082A		1	05/10/21 12:35	D1E0142	DE10705
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		57 %		30-150				
Surrogate: Tetrachloro-m-xylene		55 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-157 Date Sampled: 04/27/21 09:15 Percent Solids: N/A Initial Volume: 4.23 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-16 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 22:45	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
Aroclor 1254	3.8 (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
Aroclor 1260	1.3 (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 22:45	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-158 Date Sampled: 04/27/21 09:20 Percent Solids: N/A Initial Volume: 4.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-17 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 23:05	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
Aroclor 1254	4.6 (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
Aroclor 1260 [2C]	P, LC 1.2 (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 23:05	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		114 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		103 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-159 Date Sampled: 04/27/21 09:25 Percent Solids: N/A Initial Volume: 3.71 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-18 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 23:24	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 23:24	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 23:24	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 23:24	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 23:24	D1E0040	DE10322
Aroclor 1254 [2C]	3.6 (0.1)		8082A		1	05/04/21 23:24	D1E0040	DE10322
Aroclor 1260 [2C]	8.0 (0.7)		8082A		5	05/06/21 2:01	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 23:24	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 23:24	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		44 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		44 %		30-150				
Surrogate: Tetrachloro-m-xylene		50 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		51 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-160 Date Sampled: 04/27/21 09:30 Percent Solids: N/A Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-19 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 23:44	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 23:44	D1E0040	DE10322
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 23:44	D1E0040	DE10322
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 23:44	D1E0040	DE10322
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 23:44	D1E0040	DE10322
Aroclor 1254	2.9 (0.1)		8082A		1	05/04/21 23:44	D1E0040	DE10322
Aroclor 1260	8.1 (0.5)		8082A		5	05/06/21 2:21	D1E0040	DE10322
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 23:44	D1E0040	DE10322
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 23:44	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		61 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>92 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-161 Date Sampled: 04/27/21 09:35 Percent Solids: N/A Initial Volume: 5.38 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0016 ESS Laboratory Sample ID: 21E0016-20 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 0:04	Sequence D1E0040	<u>Batch</u> DE10322
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 0:04	D1E0040	DE10322
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 0:04	D1E0040	DE10322
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 0:04	D1E0040	DE10322
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 0:04	D1E0040	DE10322
Aroclor 1254	2.9 (0.09)		8082A		1	05/05/21 0:04	D1E0040	DE10322
Aroclor 1260	7.6 (0.5)		8082A		5	05/06/21 2:41	D1E0040	DE10322
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 0:04	D1E0040	DE10322
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 0:04	D1E0040	DE10322
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

Analytic Readt MRL Units Level Readt MRLE Linits RPD Linit Qualifier B082AP Polychlorinated Biphenyls (PCB) Setter bitter Setter bitter Setter bitter Bink Ander 1016 ND 0.02 modiq wet Setter bitter Setter		_			Spike	Source		%REC		RPD	
BIOREAD POLYCHIONTATED BIPHONYS (PCB) States DELIGIZ - States BIOR DELIGIZ - States <	Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Back DE1022 - 1540C Back DE1022 - 1540C Back DE1022 - 1540C NGR 0.2 m/da weil U Back DE102 - 10 NG 0.2 m/da weil U U U Back DE102 - 10 NG 0.2 m/da weil U U U U Back DE102 - 10 NG 0.2 m/da weil U			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Bink	Batch DE10322 - 3540C										
Andor 1016 AD D.22 mg/ng wet No No Andor 1016 [X] AD D.02 mg/ng wet No No Andor 1016 [X] AD D.02 mg/ng wet No No Andor 1016 [X] AD D.02 mg/ng wet No No Andor 122 AD D.02 mg/ng wet No No Andor 122 AD D.02 mg/ng wet No No Andor 1240 [X] AD D.02 mg/ng wet No No Andor 1240 [X] AD D.02 mg/ng wet No No Andor 1240 [X] AD D.02 mg/ng wet No No Andor 1240 [X] AD D.02 mg/ng wet No No Andor 1240 [X] AD D.02 mg/ng wet No No Andor 1262 [X] AD D.02 mg/ng wet No No Andor 1262 [X] AD D.22 mg/ng wet AD	Blank										
Ander (DC)CNG	Aroclor 1016	ND	0.02	mg/kg wet							
Ancial 121NO<	Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Ander 121 [C]NO0.02mg/ng weiset is it	Aroclor 1221	ND	0.02	mg/kg wet							
Ander 122NoNoNonaging wetAnder 122No0.02mg/ng wetAnder 122No0.02mg/ng wetAnder 124No0.02mg/ng wetAnder 1240.030.02mg/ng wetAnder 1240.0411Ander 1240.02mg/ng wet0.0201Ander 1240.02mg/ng wet0.02010.1Ander 1240.02mg/ng wet0.020 </td <td>Aroclor 1221 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Ander 122 [27]ND0.02mg/kg weiAnder 124 [ND0.02mg/kg weiIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Aroclor 1232	ND	0.02	mg/kg wet							
Ander 124ND0.02mg/hg wetAndor 124 [2C]ND0.02mg/hg wetAndor 124 [2C]ND0.02mg/hg wetAndor 124 [2C]ND0.02mg/hg wetAndor 124 [2C]ND0.02mg/hg wetAndor 125 [2C]ND0.02mg/hg wet </td <td>Aroclor 1232 [2C]</td> <td>ND</td> <td>0.02</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
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Andor 1248 ND 0.02 mg/kg wet Andor 1248 [AC] ND 0.02 mg/kg wet Andor 1248 [AC] ND 0.02 mg/kg wet Andor 1249 [AC] ND 0.02 mg/kg wet Andor 1249 [AC] ND 0.02 mg/kg wet Andor 1262 ND 0.02 mg/kg wet Andor 1263 ND 0.02 mg/kg wet Andor 1268 ND 0.02 mg/kg wet Andor 1268 [ZC] ND 0.02 mg/kg wet Sungate: Decade/notophenyl 6.027 mg/kg wet 0.0250 87 Sungate: Decade/notophenyl [ZC] 0.027 mg/kg wet 0.0250 87 97.5 Sungate: Decade/notophenyl [ZC] 0.027 mg/kg wet 0.0250 87 97.5 97.5 97.5 Sungate: Decade/notophenyl [ZC] 0.027 mg/kg wet 0.0250 87 97.5 97.5	Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Andor 1248 [2C] ND 0.02 mg/kg wet	Aroclor 1248	ND	0.02	mg/kg wet							
Aredor 1254 ND 0.02 mg/kg wet Aredor 1249 [AC] ND 0.02 mg/kg wet Aredor 1260 ND 0.02 mg/kg wet Aredor 1260 [AC] ND 0.02 mg/kg wet Aredor 1260 [AC] ND 0.02 mg/kg wet Aredor 1262 ND 0.02 mg/kg wet Aredor 1263 [AC] ND 0.02 mg/kg wet Aredor 1268 ND 0.02 mg/kg wet Surrogate: Decarchinorobjenory[C] 0.02 mg/kg wet 0.0250 8.3 9.157 - Surrogate: Decarchinorobjenory[C] 0.02 mg/kg wet 0.02500 8.3 9.157 - - Surrogate: Decarchinorobjenory[C] 0.02 mg/kg wet 0.02500 8.3 9.157 - - Surrogate: Decarchinorobjenory[C] 0.02 mg/kg wet 0.0250 8.3 9.157 - - - Surrogate: Decarchinorobjenory[C] 0.02 mg/kg wet 0.0500 10.4 40-140 - - - Surogate: Decarchinorobjenory[C] 0.55	Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
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Andor 1260 ND 0.02 mg/kg wet Andor 1260 [AC] ND 0.02 mg/kg wet Andor 1262 [AC] ND 0.02 mg/kg wet Andor 1262 [AC] ND 0.02 mg/kg wet Andor 1263 [AC] ND 0.02 mg/kg wet Andor 1268 [AC] ND 0.02 mg/kg wet Andor 1268 [AC] ND 0.02 mg/kg wet Samsgate: Decardhoroliphenyl 0.027 mg/kg wet 0.02500 63 0.157 Samsgate: Indeardhoroliphenyl 0.029 mg/kg wet 0.02500 63 0.157	Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Andor 1260 [2C] ND 0.02 mg/kg wet Andor 1262 ND 0.02 mg/kg wet Andor 1262 ND 0.02 mg/kg wet Andor 1268 [2C] ND 0.02 mg/kg wet Andor 1268 [2C] ND 0.02 mg/kg wet Sungate: Decardinon/phery/ 0.027 mg/kg wet 0.02500 8.3 30-150 Sungate: Decardinon/phery/ 0.0207 mg/kg wet 0.02500 8.3 30-150 Sungate: Decardinon/phery/ 0.0207 mg/kg wet 0.02500 8.3 30-150 Sungate: Instantoro-mylene [2C] 0.0207 mg/kg wet 0.02500 8.3 30-150 Sungate: Instantoro-mylene [2C] 0.0207 mg/kg wet 0.02500 8.3 30-150 Sungate: Instantoro-mylene [2C] 0.020 mg/kg wet 0.0500 102 40-140 - Sungate: Instantoro-mylene [2C] 0.5 0.02 mg/kg wet 0.5000 102 40-140 - Sungate: Instantoro-mylene [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 1 <t< td=""><td>Aroclor 1260</td><td>ND</td><td>0.02</td><td>mg/kg wet</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Aroclor 1260	ND	0.02	mg/kg wet							
Arader 1262 ND 0.02 mg/kg wet Arader 1262 [2C] ND 0.02 mg/kg wet Surrogate: Decachlorobiphenyl 0.027 mg/kg wet 0.0250 89 30-150 Surrogate: Tetrachloro-m-sylene 0.0190 mg/kg wet 0.02500 76 30-150 Surrogate: Tetrachloro-m-sylene 0.0190 mg/kg wet 0.02500 76 30-150 Surrogate: Tetrachloro-m-sylene 0.0190 mg/kg wet 0.02500 76 30-150 Surrogate: Tetrachloro-m-sylene 0.0190 mg/kg wet 0.5000 104 40-140 Arader 1260 [2C] 0.5 0.02 mg/kg wet 0.0200 104 40-140 Surrogate: Decachlorobiphenyl 0.02331 mg/kg wet 0.02500 101 40-140 Surrogate: Tetrachloro-m-sylene 0.023 mg/kg wet 0.02500	Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Andor 1262 [2C] ND 0.02 mg/kg wet Arodor 1268 ND 0.02 mg/kg wet Arodor 1268 [2C] ND 0.02 mg/kg wet Surrogate: DecarMonobiphenyl [2C] 0.027 mg/kg wet 0.02500 93 30-150 Surrogate: DecarMonobiphenyl [2C] 0.027 mg/kg wet 0.02500 43 30-150 Surrogate: DecarMonobiphenyl [2C] 0.027 mg/kg wet 0.02500 43 30-150 Surrogate: Tetachforo-m-sylene [2C] 0.020 mg/kg wet 0.02500 40 10 10 Arodor 1016 0.5 0.02 mg/kg wet 0.5000 102 40-140 1 10 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 1 10	Aroclor 1262	ND	0.02	mg/kg wet							
Arador 1268 ND 0.02 mg/kg wet Arador 1268 [2C] ND 0.02 mg/kg wet Surrogate: Decachlorobiphenyl 0.0207 mg/kg wet 0.02500 83 30-150 Surrogate: Decachlorobiphenyl [2C] 0.021 mg/kg wet 0.02500 89 30-150 Surrogate: Decachlorobiphenyl [2C] 0.022 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-sylene 0.0100 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.022 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-sylene [2C] 0.020 mg/kg wet 0.02500 83 30-150 LCS 0.02 mg/kg wet 0.5000 10.2 40-140 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Surrogate: Decachlorobiphenyl 0.0230 mg/kg wet 0.25200 92 30-150 Surrogate: Tetrachloro-m-sylene 0.0221 mg/kg wet 0.25200 92 30-150 Surrogate: Tetrachl	Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Andor 1268 [2C] ND 0.02 mg/kg wet 0.2250 8.3 30-150 Surragate: Decachlorabiphenyl [2C] 0.0221 mg/kg wet 0.02500 8.9 30-150 Surragate: Tetrachlora-m-xylene 0.0190 mg/kg wet 0.02500 8.0 30-150 Surragate: Tetrachlora-m-xylene [2C] 0.0207 mg/kg wet 0.02500 8.0 30-150 LCS Macdor 1016 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arcodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arcodor 1026 [2C] 0.5 0.02 mg/kg wet 0.5000 102 40-140 Surragate: Decachlorabiphenyl 0.62270 mg/kg wet 0.5000 104 40-140 Surragate: Decachlorabiphenyl [2C] 0.022 mg/kg wet 0.5000 104 40-140 Surragate: Decachlorabiphenyl [2C] 0.022 mg/kg wet 0.5000 104 40-140 Surragate: Decachlorabiphenyl [2C] 0.022 mg/kg wet 0.5000 101 40-140 30 Surragate: Tetrachlora-	Aroclor 1268	ND	0.02	mg/kg wet							
Surrogate: Decach(notbiphenyl 0.0207 mg/kg wet 0.02500 83 30-150 Surrogate: Decach(notbiphenyl [2C] 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachlaro-m-sylene 0.0190 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachlaro-m-sylene 0.0207 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachlaro-m-sylene 0.0207 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachlaro-m-sylene 0.0207 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachlaro-m-sylene 0.02 mg/kg wet 0.5000 104 40-140 Arockor 1260 0.5 0.02 mg/kg wet 0.5000 104 40-140 Surrogate: Decachlorobiphenyl 0.0220 mg/kg wet 0.2020 92 30-150 Surrogate: Decachlorobiphenyl 0.0227 mg/kg wet 0.20200 96 30-150	Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl 0.2207 mg/kg wet 0.02500 83 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0227 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.0207 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0207 mg/kg wet 0.02500 83 30-150 LCS Nodor 1016 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arodor 1260 0.5 0.02 mg/kg wet 0.5000 104 40-140 Arodor 1260 0.5 0.02 mg/kg wet 0.02500 104 40-140 Surrogate: Decachlorobiphenyl 0.5 0.02 mg/kg wet 0.02500 104 40-140 Surrogate: Decachlorobiphenyl 0.0227 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0241 mg/kg wet 0.02500 91 30-150 Surrogate: Tetrachloro-m-xylene 0.0241 mg/kg wet 0.											
Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 89 30-150 Surrogate: Tetrachloro-m-xylene 0.0190 mg/kg wet 0.02500 76 30-150 Surrogate: Tetrachloro-m-xylene 0.0207 mg/kg wet 0.02500 83 30-150 Surrogate: Tetrachloro-m-xylene 0.020 mg/kg wet 0.5000 102 40-140 Arodor 1016 0.5 0.02 mg/kg wet 0.5000 104 40-140 Arodor 1260 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arodor 1260 0.5 0.02 mg/kg wet 0.5000 104 40-140 Arodor 1260 [2C] 0.5 0.02 mg/kg wet 0.2500 92 30-150 Surrogate: Decachlorobiphenyl 0.221 mg/kg wet 0.2500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0221 mg/kg wet 0.2500 92 30-150 Surrogate: Tetrachloro-m-xy	Surrogate: Decachlorobiphenyl	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetracharo-m-xylene 0.0190 mg/kg wet 0.02500 76 30-150 Surrogate: Tetrachlaro-m-xylene 0.027 mg/kg wet 0.02500 83 30-150 LCS Nacolar 1016 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arockor 1016 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arockor 1260 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arockor 1260 0.5 0.02 mg/kg wet 0.5000 102 40-140 Surrogate: Decachlarobiphenyl 0.0230 mg/kg wet 0.2500 92 30-150 Surrogate: Decachlarobiphenyl 0.0227 mg/kg wet 0.2500 92 30-150 Surrogate: Decachlarobiphenyl 0.0231 mg/kg wet 0.2500 92 30-150 Surrogate: Decachlarobiphenyl 0.021 mg/kg wet 0.2500 92 30-150 Surrogate: Tetrach	Surrogate: Decachlorobiphenyl [2C]	0.0221		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0207 mg/kg wet 0.02500 83 30-150 LCS	Surrogate: Tetrachloro-m-xylene	0.0190		mg/kg wet	0.02500		76	30-150			
LCS No.2 mg/kg wet 0.500 102 40-140 Aractor 1016 0.5 0.02 mg/kg wet 0.500 104 40-140 Aractor 1260 0.5 0.02 mg/kg wet 0.5000 102 40-140 Aractor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Surragate: Decachlorablphenyl 0.5 0.02 mg/kg wet 0.2500 92 30-150 Surragate: Decachlorablphenyl 0.0227 mg/kg wet 0.02500 91 30-150 Surragate: Tetrachlora-m-xylene 0.0241 mg/kg wet 0.02500 92 30-150 Surragate: Tetrachlora-m-xylene 0.0241 mg/kg wet 0.02500 96 30-150 LCS Dup 0.0241 mg/kg wet 0.0500 101 40-140 1 30 Arcdor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arcdor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arcdor 1260 [2C] <td>Surrogate: Tetrachloro-m-xylene [2C]</td> <td>0.0207</td> <td></td> <td>mg/kg wet</td> <td>0.02500</td> <td></td> <td>83</td> <td>30-150</td> <td></td> <td></td> <td></td>	Surrogate: Tetrachloro-m-xylene [2C]	0.0207		mg/kg wet	0.02500		83	30-150			
Arador 1016 0.5 0.02 mg/kg wet 0.500 102 40-140 Arador 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Arador 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Arador 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Surrogate: Decachlorobiphenyl 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0231 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0241 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0241 mg/kg wet 0.02500 92 30-150 LCS Du mg/kg wet 0.5000 101 40-140 1 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 S	LCS										
Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Arodor 1260 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arodor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Surrogate: Decachlorobiphenyl 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0231 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0231 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0241 mg/kg wet 0.02500 96 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0241 mg/kg wet 0.02500 96 30-150 LS Du T mg/kg wet 0.020 mg/kg wet 0.0200 101 40-140 1 30 Arodor 1016 [2C] 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arodor 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 101 40-140 3 30	Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Arodor 1260 0.5 0.02 mg/kg wet 0.5000 102 40-140 Arodor 1260 [2C] 0.5 0.02 mg/kg wet 0.5000 104 40-140 Surrogate: Decachlorobiphenyl 0.0230 mg/kg wet 0.02500 92 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0227 mg/kg wet 0.02500 92 30-150 Surrogate: Tetrachloro-m-xylene 0.0231 mg/kg wet 0.02500 96 30-150 LCS Dup mg/kg wet 0.02500 96 30-150 96 30-150 LCS Dup mg/kg wet 0.02500 96 30-150 96 30-150 LCS Dup mg/kg wet 0.02500 96 30-150 96 30-150 LCS Dup Nodor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arodor 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 101 40-140 6 30 <td>Aroclor 1016 [2C]</td> <td>0.5</td> <td>0.02</td> <td>mg/kg wet</td> <td>0.5000</td> <td></td> <td>104</td> <td>40-140</td> <td></td> <td></td> <td></td>	Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		104	40-140			
Arodor 1260 [2C] 0.5 0.02 mg/kg wet 0.500 104 40-140 Surragate: Decachlorobiphenyl 0.0230 mg/kg wet 0.02500 92 30-150 Surragate: Decachlorobiphenyl [2C] 0.0227 mg/kg wet 0.02500 92 30-150 Surragate: Tetrachloro-m-xylene 0.0231 mg/kg wet 0.02500 92 30-150 Surragate: Tetrachloro-m-xylene 0.0241 mg/kg wet 0.02500 96 30-150 LCS Dup Arodor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 101 40-140 1 30 Surragate: Decachlorobiphenyl 0.6 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 101 40-140 6 30 Surragate: Decachlorobiphenyl	Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		102	40-140			
Surragate: Decachlorabijheny/ 0.0230 mg/kg wet 0.02500 92 30-150 Surragate: Decachlorabijheny/ 0.0227 mg/kg wet 0.02500 91 30-150 Surragate: Tetrachloro-m-xylene 0.0231 mg/kg wet 0.02500 92 30-150 Surragate: Tetrachloro-m-xylene 0.0241 mg/kg wet 0.02500 96 30-150 LCS Dup Noclor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 10260 [2C] 0.6 0.02 mg/kg wet 0.5000 101 40-140 1 30 Surragate: Decachlorobipheny/ 0.6 0.02 mg/kg wet 0.5000 101 40-140 6 30 Surragate: Decachlorobipheny/ 0.0214 mg/kg wet 0.02500 86 30-150 50 Surragate: Tetrachloro-m-x	Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		104	40-140			
Surrogate: Decachilorobiphenyl <	Currenter Deserblanchistory	0.0230		ma/ka wet	0.02500		92	30-150			
Surrogate: Detail in syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it it in the syns it in the syns it it in the syns it it in the syns it it in the syns it is in the syns it in the syns it it in the syns it is in the syns	Surrogate, DecachioroDiphenyi	0.0227		ma/ka wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene 20/241 mg/kg wet 0.02500 96 30-150 LCS Dup Arodor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arodor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arodor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arodor 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 101 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0214 mg/kg wet 0.02500 86 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0233 mg/kg wet 0.02500 93 30-150 Surrogate: Tetrachloro-m-xylene 0.0237 mg/kg wet 0.02500 95 30-150 <td>Surrogate, Detachloromy wilene</td> <td>0.0231</td> <td></td> <td>ma/ka wet</td> <td>0.02500</td> <td></td> <td>92</td> <td>30-150</td> <td></td> <td></td> <td></td>	Surrogate, Detachloromy wilene	0.0231		ma/ka wet	0.02500		92	30-150			
LCS Dup Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Aroclor 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 110 40-140 6 30 Surrogate: Decachlorobipheny/ 0.0214 mg/kg wet 0.02500 86 30-150 50 5000 101 40-140 6 30 Surrogate: Decachlorobipheny/ 0.0214 mg/kg wet 0.02500 86 30-150 50<	Surrogate: Tetrachloro-m-xylene	0.0241		mg/kg wet	0.02500		96	30-150			
Aroclor 1016 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Aroclor 1016 [2C] 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Aroclor 1260 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Aroclor 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 110 40-140 6 30 Surrogate: Decachlorobipheny/ 0.0214 mg/kg wet 0.02500 86 30-150 50 Surrogate: Decachlorobipheny/ [2C] 0.0221 mg/kg wet 0.02500 88 30-150 50 Surrogate: Tetrachloro-m-xylene 0.0233 mg/kg wet 0.02500 93 30-150 50 Surrogate: Tetrachloro-m-xylene [2C] 0.0237 mg/kg wet 0.02500 95 30-150 50 Matrix Spike Source: 21E0016-07 Source: 21E0016-07 50 50 50 50 50				0, 0							
Arocka fold 0.05 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arocka fold 0.5 0.02 mg/kg wet 0.5000 101 40-140 3 30 Arocka fold 0.5 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arocka fold 0.6 0.02 mg/kg wet 0.5000 110 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0214 mg/kg wet 0.02500 86 30-150 50 50 Surrogate: Decachlorobiphenyl 0.0221 mg/kg wet 0.02500 88 30-150 50 50 Surrogate: Decachlorobiphenyl 0.0233 mg/kg wet 0.02500 93 30-150 50 50 Surrogate: Tetrachloro-m-xylene 0.0237 mg/kg wet 0.02500 95 30-150 50 Matrix Spike Source: 21E0016-07 500 95 30-150 50 50	Aroclor 1016	0.5	0.02	ma/ka wet	0 5000		101	40-140	1	30	
Arocka H12 [22] 0.05 0.02 mg/kg wet 0.5000 101 40-140 1 30 Arocka 1260 [2C] 0.6 0.02 mg/kg wet 0.5000 110 40-140 6 30 Surrogate: Decachlorobiphenyl 0.0214 mg/kg wet 0.02500 86 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene 0.0233 mg/kg wet 0.02500 93 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0237 mg/kg wet 0.02500 95 30-150 Matrix Spike Source: 21E0016-07 5000 5000 5000 5000 5000	Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		101	40-140	3	30	
Arocion 1260 0.03 0.02 mg/kg wet 0.5000 101 101 10	Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140	1	30	
Surrogate: Decachlorobiphenyl 0.0214 mg/kg wet 0.02500 86 30-150 Surrogate: Decachlorobiphenyl 0.0221 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene 0.0233 mg/kg wet 0.02500 93 30-150 Surrogate: Tetrachloro-m-xylene 0.0237 mg/kg wet 0.02500 95 30-150 Matrix Spike Source: 21E0016-07	Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		110	40-140	6	30	
Surrogate: Decachlorobiphenyl 0.0214 mg/kg wet 0.02500 86 30-150 Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene 0.0233 mg/kg wet 0.02500 93 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0237 mg/kg wet 0.02500 95 30-150 Matrix Spike Source: 21E0016-07 Source: 21E0016-07 Source: 21E0016-07 Source: 21E0016-07 Source: 21E0016-07		0.0	0.02	mg/kg wei	0.000		110	UTI UF	0	50	
Surrogate: Decachlorobiphenyl [2C] 0.0221 mg/kg wet 0.02500 88 30-150 Surrogate: Tetrachloro-m-xylene 0.0233 mg/kg wet 0.02500 93 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.0237 mg/kg wet 0.02500 95 30-150 Matrix Spike Source: 21E0016-07 Source: 21E0016-0	Surrogate: Decachlorobiphenyl	0.0214		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene 0.0233 mg/kg wet 0.02500 93 30-150 Jurogate: Tetrachloro-m-xylene [2C] 0.0237 mg/kg wet 0.02500 95 30-150 Matrix Spike Source: 21E0016-07	Surrogate: Decachlorobiphenyl [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0237 mg/kg wet 0.02500 95 30-150 Matrix Spike Source: 21E0016-07 <th<< td=""><td>Surrogate: Tetrachloro-m-xylene</td><td>0.0233</td><td></td><td>mg/kg wet</td><td>0.02500</td><td></td><td><i>93</i></td><td>30-150</td><td></td><td></td><td></td></th<<>	Surrogate: Tetrachloro-m-xylene	0.0233		mg/kg wet	0.02500		<i>93</i>	30-150			
Matrix Spike Source: 21E0016-07	Surrogate: Tetrachloro-m-xylene [2C]	0.0237		mg/kg wet	0.02500		95	30-150			
	Matrix Spike Source: 21E0016-07	,									



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

					Spike	Source		%REC		RPD	
Analyte		Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10322 - 354	0C										
Aroclor 1016		1.4	0.1	mg/kg wet	2.899	ND	49	40-140			
Aroclor 1016 [2C]		1.1	0.1	mg/kg wet	2.899	ND	38	40-140			M-
Aroclor 1260		2.0	0.1	mg/kg wet	2.899	1.3	25	40-140			M-
Aroclor 1260 [2C]		1.7	0.1	mg/kg wet	2.899	1.1	21	40-140			M-
Surrogate: Decachlorobi	nhenvl	0.0825		mg/kg wet	0.1449		57	30-150			
Surrogate: Decachlorobi	iphenvl [2C]	0.0795		mg/kg wet	0.1449		55	30-150			
Surrogate: Tetrachloro-m-xylene		0.0721		mg/kg wet	0.1449		50	30-150			
Surrogate: Tetrachloro-i	m-xylene [2C]	0.0685		mg/kg wet	0.1449		47	30-150			
Matrix Spike Dup	Source: 21E0016-07										
Aroclor 1016		1.8	0.1	mg/kg wet	2.717	ND	68	40-140	25	30	
Aroclor 1016 [2C]		1.5	0.1	mg/kg wet	2.717	ND	56	40-140	31	30	D+
Aroclor 1260		2.9	0.1	mg/kg wet	2.717	1.3	58	40-140	36	30	D+
Aroclor 1260 [2C]		2.2	0.1	mg/kg wet	2.717	1.1	40	40-140	25	30	
		0 117		ma/ka wet	0 1350		26	30-150			
Surrogate: Decachlorobi	phenyl	0.111		mg/kg wet	0.1359		81	30-150			
Surrogate: Decachlorobi	phenyl [2C]	0.111		mg/kg wet	0.1359		70	30-150			
Surrogate: Tetrachloro-r	m-xylene	0.0350		mg/kg wet	0.1359		62	30-150			
Surrogate: Tetrachloro-I	m-xylene [2C]	0.0045		ilig/kg wee	0.1555		02	50 150			
Batch DE10609 - 354											
Blank											
Aroclor 1016		ND	0.02	mg/kg wet							
Aroclor 1016 [2C]		ND	0.02	mg/kg wet							
Aroclor 1221		ND	0.02	mg/kg wet							
Aroclor 1221 [2C]		ND	0.02	mg/kg wet							
Aroclor 1232		ND	0.02	mg/kg wet							
Aroclor 1232 [2C]		ND	0.02	mg/kg wet							
Aroclor 1242		ND	0.02	mg/kg wet							
Aroclor 1242 [2C]		ND	0.02	mg/kg wet							
Aroclor 1248		ND	0.02	mg/kg wet							
Aroclor 1248 [2C]		ND	0.02	mg/kg wet							
Arocior 1254		ND	0.02	mg/kg wet							
Aroclor 1254 [2C]		ND	0.02	mg/kg wet							
Aroclor 1260		ND	0.02	mg/kg wet							
Aroclor 1200 [2C]		ND	0.02	mg/kg wet							
Aroclor 1262 [20]			0.02	mg/kg wet							
Aroclor 1262 [2C]			0.02	mg/kg wet							
Aroclor 1268 [20]			0.02	mg/kg wet							
		טא	0.02	mg/kg wet							
Surrogate: Decachlorobi	phenyl	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobi	phenyl [2C]	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-i	m-xylene	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-i	m-xylene [2C]	0.0249		mg/kg wet	0.02500		99	30-150			
LCS											



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ESS Laboratory Work Order: 21E0016

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobinhenvl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140	2	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		97	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		93	40-140	3	30	
	0.0256		ma/ka wet	0 02500		102	30-150			
Surrogate: Decachlorobiphenyl	0.0250		mg/kg wet	0.02500		102	30-150			
Surrogate: DecachioroDipnenyi [2C]	0.0241		ma/ka wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0249		ma/ka wet	0.02500		100	30-150			
			3, 3, 5, 5,							
Batch DE10705 - 3540C										
Blank		0.00								
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Arodor 1240	ND	0.02	mg/kg wet							
Aroclor 1256	ND	0.02	mg/kg wet							
Aroclor 1254 [20]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0192		mg/kg wet	0.02500		77	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0204		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0258		mg/kg wet	0.02500		103	30-150			
LCS										



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

A set to	Denuk	MDI	11-24-	Spike	Source	0/ DEC	%REC		RPD	0
Analyte	Kesuit	MKL	Units	Level	Result	%REC	LIMITS	KPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10705 - 3540C										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		86	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Surrogate: Decachlorobiphenyl	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0247		mg/kg wet	0.02500		99	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		93	40-140	5	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140	0.9	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		89	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140	0.6	30	
Surrogate: Decachlorobiphenyl	0.0199		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetrachloro-m-xylene	0.0222		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0248		mg/kg wet	0.02500		99	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Р	Percent difference between primary and confirmation results exceeds 40% (P).
M-	Matrix Spike recovery is below lower control limit (M-).
LC	Lower value is used due to matrix interferences (LC).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LUQ	Limit of Quantitation
	Detection Limit
I/ V F/V	Final Volume
c	Subcontracted analyzing see attached report
8 1	Pange result evolutions of surrogates and/or internal standards eluting in that range
1	Range result excludes concentrations of target analytes eluting in that range
3	Range result excludes the concentration of the C9-C10 aromatic range
Avg	Results reported as a mathematical average
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0016

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID:	
Shipped/Delivered Via: ESS Courier	Project Due Date: 5/10/2021 Days for Project: 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
······	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No / NA
4. Is a Cooler Present? Yes Temp:3.9 Iced with:	10. Were any analyses received outside of hold time?	Yes/No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes No	}	
a. Was there a need to contact the client? Yes No Who was contacted? Date:) Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	160868	Yes	N/A	Yes	4 oz. Jar	NP	
2	160869	Yes	N/A	Yes	4 oz. Jar	NP	
3	160870	Yes	N/A	Yes	4 oz. Jar	NP	
4	160871	Yes	N/A	Yes	4 oz. Jar	NP	
5	160872	Yes	N/A	Yes	4 oz. Jar	NP	
6	160873	Yes	N/A	Yes	4 oz. Jar	NP	
. 7	160874	Yes	N/A	Yes	4 oz. Jar	NP	
8	160875	Yes	N/A	Yes	4 oz. Jar	NP	
9	160876	Yes	N/A	Yes	4 oz. Jar	NP	
10	160877	Yes	N/A	Yes	4 oz. Jar	NP	
11	160878	Yes	N/A	Yes	4 oz. Jar	NP	
12	160879	Yes	N/A	Yes	4 oz. Jar	NP	
13	160880	Yes	N/A	Yes	4 oz. Jar	NP	
14	160881	Yes	N/A	Yes	4 oz. Jar	NP	
15	160882	Yes	N/A	Yes	4 oz. Jar	NP	
16	160883	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

C	lient:	Coneco Eng	ginee <u>rs, Sc</u> i	entists & Sur	v - KPB/TB		ESS Project ID:		21E0016	
	_						Date Received:		5/3/2021	
17	,	160884	Yes	N/A	Yes	4 oz. Jar	1	NP		
18	3	160885	Yes	N/A	Yes	4 oz. Jar	I	NP		
19)	160886	Yes	N/A	Yes	4 oz. Jar	I	NP		
20)	160887	Yes	N/A	Yes	4 oz. Jar	I	NP		
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Cranston, RI 02910 Tutu Time (504) 5	EQuIS
Fax: 401-461-4486 Is this project for any of the following?:	Enviro Data
LABORA 21 www.esslaboratory.com CT RCP MA MCP RGP Permit 401 WQ CLP-Like Package Other (Specify) -	→ PDF
CLIENT INFORMATION PROJECT INFORMATION REQUESTED ANALY	YSES
Client: Coneco Engineers and Scientists Project Name: Pawtucket 1 Control House, 6 Thornton Street, Pawtucket, RI	
Address: 4 First Street, Bridgewater, MA Project Location: 6 Thornton Street, Pawtucket, RI acknowledges	
Project Number: 5675.F that sampling	
Phone: 5086973191 Project Manager: Katie Loftus is compliant	
Email Bill to:	
Distribution PO#: 5675.F State regulatory & S	
List: Jaevazelis, Mzoller, Kloftus, ddifrancesco@coneco.com Quote#:	
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7 8=30 cm PS-148 XX	
8 8=75 am PS-149 X	
9 8:40 m PS-150 X	
1D 8=4500 V PS-151 X	
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial AG	
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*	
Preservation Code: 1-Non Preserved 2-HCI 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other* 11	
Sampled by : Chain needs to be filled out neatly and completely for	on time delivery.
I charactery lise Only Commenter * Plagse specify "Other" preservative and containers types in this space	Dissolved Filtration
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$\frac{3.9}{1.2}$ Cooler Temperature (°C): $\frac{3.9}{1.2}$ National Grid Project, TSCA requirements, use manual soxhet extraction per EPA method 3540, Report dry weight, homogenize sample, provide full data package, 11 = Ice All samples submitted are subject to ESS Laboratory's payment terms and conditions.	Lab Filter
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Phone:		5086973	191	Project Manager		Katie Loftus		is compliant									
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0017

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:27 pm, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21E0017-01	PS-162	Solid	8082A
21E0017-02	PS-163	Solid	8082A
21E0017-03	PS-164	Solid	8082A
21E0017-04	PS-165	Solid	8082A
21E0017-05	PS-166	Solid	8082A
21E0017-06	PS-167	Solid	8082A
21E0017-07	PS-168	Solid	8082A
21E0017-08	PS-169	Solid	8082A
21E0017-09	PS-170	Solid	8082A
21E0017-10	PS-171	Solid	8082A
21E0017-11	PS-172	Solid	8082A
21E0017-12	PS-173	Solid	8082A
21E0017-13	PS-174	Solid	8082A
21E0017-14	PS-175	Solid	8082A
21E0017-15	PS-176	Solid	8082A
21E0017-16	PS-177	Solid	8082A
21E0017-17	PS-178	Solid	8082A
21E0017-18	PS-179	Solid	8082A
21E0017-19	PS-180	Solid	8082A
21E0017-20	PS-181	Solid	8082A

ESS Laboratory Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

PROJECT NARRATIVE

21E0017-05	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl [2C] (155% @ 30-150%)
21E0017-07	Lower value is used due to matrix interferences (LC).
	Aroclor 1262 [2C]
21E0017-07	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1262 [2C]
21E0017-08	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (216% @ 30-150%), Decachlorobiphenyl [2C] (247% @ 30-150%)
21E0017-09	Lower value is used due to matrix interferences (LC).
	Aroclor 1262 [2C]
21E0017-09	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1262 [2C]
21E0017-12	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (740% @ 30-150%), Decachlorobiphenyl [2C] (827% @ 30-150%)
21E0017-13	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (1130% @ 30-150%), Decachlorobiphenyl [2C] (1240% @ 30-150%)
21E0017-16	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (161% @ 30-150%), Decachlorobiphenyl [2C] (182% @ 30-150%)
21E0017-17	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (153% @ 30-150%), Decachlorobiphenyl [2C] (167% @ 30-150%)
21E0017-19	Lower value is used due to matrix interferences (LC).
	Aroclor 1262 [2C]
21E0017-19	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1262 [2C]
21E0017-20	Lower value is used due to matrix interferences (LC).
	Aroclor 1262 [2C]
21E0017-20	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1262 [2C]
D1E0123-CCV4	Continuing Calibration %Diff/Drift is above control limit (CD+).
	Aroclor 1232 (21% @ 20%), Aroclor 1232 [2C] (22% @ 20%)
DE10323-MS2	Reported above the quantitation limit; Estimated value (E).
	Aroclor 1260, Aroclor 1260 [2C]
DE10323-MS2	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (174% @ 30-150%), Decachlorobiphenyl [2C] (198% @ 30-150%)
DE10323-MSD2	Reported above the quantitation limit; Estimated value (E).
	Aroclor 1260, Aroclor 1260 [2C]
DE10323-MSD2	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (164% @ 30-150%), Decachlorobiphenyl [2C] (182% @ 30-150%)



The Microbiology Division of Thielsch Engineering, Inc.

ESS Laboratory Work Order: 21E0017



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-162 Date Sampled: 04/27/21 09:40 Percent Solids: N/A Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.09)		8082A 8082A		1	05/04/21 14:23	D1E0039	DE10323
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 14:23	D1E0039	DE10323
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 14:23	D1E0039	DE10323
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 14:23	D1E0039	DE10323
Aroclor 1254	2.0 (0.09)		8082A		1	05/04/21 14:23	D1E0039	DE10323
Aroclor 1260 [2C]	4.6 (0.2)		8082A		2	05/06/21 3:17	D1E0039	DE10323
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 14:23	D1E0039	DE10323
Aroclor 1268	ND (0.09)		8082A		1	05/04/21 14:23	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		108 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		75 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-163 Date Sampled: 04/27/21 09:45 Percent Solids: N/A Initial Volume: 5.38 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 14:42	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
Aroclor 1254	1.2 (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
Aroclor 1260	ND (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
Aroclor 1262	1.2 (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
Aroclor 1268	ND (0.09)		8082A		1	05/04/21 14:42	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		36 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		39 %		30-150				
Surrogate: Tetrachloro-m-xylene		32 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		38 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-164 Date Sampled: 04/27/21 09:50 Percent Solids: N/A Initial Volume: 5.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:02	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 15:02	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 15:02	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 15:02	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 15:02	D1E0039	DE10323
Aroclor 1254	4.5 (0.2)		8082A		2	05/06/21 3:37	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 15:02	D1E0039	DE10323
Aroclor 1262	4.7 (0.2)		8082A		2	05/06/21 3:37	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 15:02	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>85 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		79 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-165 Date Sampled: 04/27/21 09:55 Percent Solids: N/A Initial Volume: 5.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:21	Sequence D1E0039	Batch DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
Aroclor 1254	2.3 (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
Aroclor 1262	2.7 (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 15:21	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		128 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		143 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-166 Date Sampled: 04/27/21 10:00 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1254	2.2 (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1262	2.8 (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 15:41	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		141 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		155 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-167 Date Sampled: 04/28/21 08:00 Percent Solids: N/A Initial Volume: 0.88 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-06 Sample Matrix: Solid Units: mg/kg wet Analyst: DMC Prepared: 5/6/21 16:45

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.6)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/08/21 1:59	Sequence D1E0123	<u>Batch</u> DE10609
Aroclor 1221	ND (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
Aroclor 1232	ND (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
Aroclor 1242	ND (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
Aroclor 1248	ND (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
Aroclor 1254 [2C]	4.4 (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
Aroclor 1260 [2C]	5.8 (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
Aroclor 1262	ND (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
Aroclor 1268	ND (0.6)		8082A		1	05/08/21 1:59	D1E0123	DE10609
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		64 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		64 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-168 Date Sampled: 04/28/21 08:05 Percent Solids: N/A Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 16:19	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 16:19	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 16:19	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 16:19	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 16:19	D1E0039	DE10323
Aroclor 1254	3.2 (0.1)		8082A		1	05/04/21 16:19	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 16:19	D1E0039	DE10323
Aroclor 1262 [2C]	P, LC 6.5 (0.4)		8082A		4	05/07/21 17:39	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 16:19	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		64 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		59 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				


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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-169 Date Sampled: 04/28/21 08:10 Percent Solids: N/A Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 16:39	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 16:39	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 16:39	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 16:39	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 16:39	D1E0039	DE10323
Aroclor 1254	3.5 (0.1)		8082A		1	05/04/21 16:39	D1E0039	DE10323
Aroclor 1260 [2C]	4.1 (0.2)		8082A		2	05/06/21 4:17	D1E0039	DE10323
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 16:39	D1E0039	DE10323
Aroclor 1268 [2C]	1.3 (0.1)		8082A		1	05/04/21 16:39	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		216 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		247 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-170 Date Sampled: 04/28/21 08:15 Percent Solids: N/A Initial Volume: 1.65 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.3)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 17:37	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
Aroclor 1232	ND (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
Aroclor 1242	ND (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
Aroclor 1248	ND (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
Aroclor 1254	2.2 (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
Aroclor 1260	ND (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
Aroclor 1262 [2C]	P, LC 1.8 (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
Aroclor 1268	ND (0.3)		8082A		1	05/04/21 17:37	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		97 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		109 %		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		101 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-171 Date Sampled: 04/28/21 08:20 Percent Solids: N/A Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 17:56	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
Aroclor 1254	1.7 (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
Aroclor 1262 [2C]	0.9 (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 17:56	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		60 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-172 Date Sampled: 04/28/21 08:25 Percent Solids: N/A Initial Volume: 5.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 18:15	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
Aroclor 1254	2.9 (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
Aroclor 1262	1.6 (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 18:15	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		120 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		128 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>97 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-173 Date Sampled: 04/28/21 08:30 Percent Solids: N/A Initial Volume: 4.58 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 18:35	Sequence D1E0039	Batch DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
Aroclor 1254	1.7 (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
Aroclor 1260 [2C]	1.4 (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
Aroclor 1268 [2C]	1.7 (0.1)		8082A		1	05/04/21 18:35	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		740 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		827 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		55 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		64 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-174 Date Sampled: 04/28/21 08:35 Percent Solids: N/A Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-13 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 18:55	Sequence D1E0039	Batch DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
Aroclor 1254	2.3 (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
Aroclor 1260 [2C]	2.1 (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
Aroclor 1268 [2C]	2.4 (0.1)		8082A		1	05/04/21 18:55	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		1130 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		1240 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-175 Date Sampled: 04/28/21 08:40 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-14 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 19:14	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 19:14	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 19:14	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 19:14	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 19:14	D1E0039	DE10323
Aroclor 1254	7.8 (0.5)		8082A		5	05/06/21 4:57	D1E0039	DE10323
Aroclor 1260 [2C]	6.6 (0.5)		8082A		5	05/06/21 4:57	D1E0039	DE10323
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 19:14	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 19:14	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		83 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-176 Date Sampled: 04/28/21 08:45 Percent Solids: N/A Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-15 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 19:34	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
Aroclor 1254	3.2 (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
Aroclor 1262	2.6 (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 19:34	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-177 Date Sampled: 04/28/21 08:50 Percent Solids: N/A Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-16 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 22:32	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 22:32	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 22:32	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 22:32	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 22:32	D1E0039	DE10323
Aroclor 1254	2.7 (0.1)		8082A		1	05/04/21 22:32	D1E0039	DE10323
Aroclor 1260	5.7 (0.5)		8082A		5	05/06/21 4:37	D1E0039	DE10323
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 22:32	D1E0039	DE10323
Aroclor 1268 [2C]	2.8 (0.1)		8082A		1	05/04/21 22:32	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		161 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		182 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-178 Date Sampled: 04/28/21 08:55 Percent Solids: N/A Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-17 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 23:30	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 23:30	D1E0039	DE10323
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 23:30	D1E0039	DE10323
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 23:30	D1E0039	DE10323
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 23:30	D1E0039	DE10323
Aroclor 1254	2.8 (0.09)		8082A		1	05/04/21 23:30	D1E0039	DE10323
Aroclor 1260	7.9 (0.5)		8082A		5	05/06/21 5:17	D1E0039	DE10323
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 23:30	D1E0039	DE10323
Aroclor 1268	2.4 (0.09)		8082A		1	05/04/21 23:30	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		153 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		167 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-179 Date Sampled: 04/28/21 09:00 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-18 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 23:49	Sequence D1E0039	Batch DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 23:49	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 23:49	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 23:49	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 23:49	D1E0039	DE10323
Aroclor 1254	2.5 (0.1)		8082A		1	05/04/21 23:49	D1E0039	DE10323
Aroclor 1260	8.1 (0.5)		8082A		5	05/06/21 5:36	D1E0039	DE10323
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 23:49	D1E0039	DE10323
Aroclor 1268 [2C]	1.9 (0.1)		8082A		1	05/04/21 23:49	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>92 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-180 Date Sampled: 04/28/21 09:05 Percent Solids: N/A Initial Volume: 5.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-19 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 0:09	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 0:09	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 0:09	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 0:09	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 0:09	D1E0039	DE10323
Aroclor 1254	2.4 (0.1)		8082A		1	05/05/21 0:09	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 0:09	D1E0039	DE10323
Aroclor 1262 [2C]	P, LC 5.4 (0.5)		8082A		5	05/06/21 5:56	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 0:09	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-181 Date Sampled: 04/28/21 09:10 Percent Solids: N/A Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0017 ESS Laboratory Sample ID: 21E0017-20 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:15

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 0:29	Sequence D1E0039	<u>Batch</u> DE10323
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 0:29	D1E0039	DE10323
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 0:29	D1E0039	DE10323
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 0:29	D1E0039	DE10323
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 0:29	D1E0039	DE10323
Aroclor 1254	3.8 (0.1)		8082A		1	05/05/21 0:29	D1E0039	DE10323
Aroclor 1260	ND (0.1)		8082A		1	05/05/21 0:29	D1E0039	DE10323
Aroclor 1262 [2C]	P, LC 3.7 (0.5)		8082A		5	05/06/21 6:16	D1E0039	DE10323
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 0:29	D1E0039	DE10323
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

Quality Control Data

	D	MDI		Spike	Source	0/ DEC	%REC		RPD	0 15
Апаусе	Kesuit	MKL	Units	Levei	Kesuit	%REC	LIMITS	KPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10323 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
	0.0105			0.02500		70	20.150			
Surrogate: Decachlorobiphenyl	0.0195		mg/kg wet	0.02500		/8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0214		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0240		mg/kg wet	0.02500		99	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Surrogate: Decachlorobiphenyl	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0213		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0222		mg/kg wet	0.02500		89	30-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140	4	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140	2	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		86	40-140	0.4	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		85	40-140	0.05	30	
	0.0204			0.02505		63	20.450			
Surrogate: Decachlorobiphenyl	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0211		mg/kg wet	0.02500		84 87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0218		mg/kg wet	0.02500		8/	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0240		mg/kg wet	0.02500		96	30-150			
Matrix Spike Source: 21E0017-09										

Fax: 401-461-4486 http://www.ESSLaboratory.com

Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

Quality Control Data

					Spike	Source		%REC		RPD	
Analyte		Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10323 - 354	0C	4.0	0.2	ma/ka wot	6.061	ND	01	40 140			
Aroclor 1016		4.9	0.3	mg/kg wet	6.061		61 77	40-140			
Aroclar 1260		4.7	0.5	mg/kg wet	6.061	ND	100	40 140			
Aroclor 1260 [2C]		5.9	0.3	mg/kg wet	6.061	ND	98	40-140			
		5.5	0.5	ing/kg wet	0.001		50	10 1 10			
Surrogate: Decachlorobi	iphenyl	0.284		mg/kg wet	0.3030		94	30-150			
Surrogate: Decachlorobi	phenyl [2C]	0.309		mg/kg wet	0.3030		102	30-150			
Surrogate: Tetrachloro-r	m-xylene	0.241		mg/kg wet	0.3030		80	30-150			
Surrogate: Tetrachloro-r	m-xylene [2C]	0.271		mg/kg wet	0.3030		89	30-150			
Matrix Spike	Source: 21E0017-16										
Aroclor 1016		2.8	0.1	mg/kg wet	1.992	ND	138	40-140			
Aroclor 1016 [2C]		2.1	0.1	mg/kg wet	1.992	ND	105	40-140			
Aroclor 1260		7.6	0.1	mg/kg wet	1.992	5.7	97	40-140			E
Aroclor 1260 [2C]		6.9	0.1	mg/kg wet	1.992	5.3	84	40-140			Е
	in h a secol	0.173		ma/ka wet	0.09960		174	30-150			SM
Surrogate: Decachiorobi	pnenyi	0.198		mg/kg wet	0.09960		198	30-150			SM
Surrogate: Decachiorobi	prienyi [2C]	0.0876		ma/ka wet	0.09960		88	30-150			
Surrogate: Tetrachloro-r	n-xylene	0.0970		mg/kg wet	0.09960		97	30-150			
Matrix Spike Dup	Source: 21E0017-09										
Aroclor 1016	Source. 2120017-05	5.2	0.3	ma/ka wet	5 814	ND	90	40-140	7	30	
Aroclor 1016 [2C]		4 7	0.3	mg/kg wet	5.814	ND	87	40-140	, 2	30	
Aroclor 1260		79	0.3	mg/kg wet	5.814	ND	135	40-140	27	30	
Aroclor 1260 [2C]		7.2	0.3	mg/kg wet	5.814	ND	123	40-140	19	30	
		,									
Surrogate: Decachlorobi	iphenyl	0.324		mg/kg wet	0.2907		112	30-150			
Surrogate: Decachlorobi	iphenyl [2C]	0.354		mg/kg wet	0.2907		122	30-150			
Surrogate: Tetrachloro-r	m-xylene	0.240		mg/kg wet	0.2907		83	30-150			
Surrogate: Tetrachloro-r	m-xylene [2C]	0.271		mg/kg wet	0.2907		93	30-150			
Matrix Spike Dup	Source: 21E0017-16										
Aroclor 1016		2.6	0.1	mg/kg wet	1.946	ND	134	40-140	5	30	
Aroclor 1016 [2C]		1.9	0.1	mg/kg wet	1.946	ND	99	40-140	8	30	
Aroclor 1260		7.0	0.1	mg/kg wet	1.946	5.7	68	40-140	8	30	Е
Aroclor 1260 [2C]		6.4	0.1	mg/kg wet	1.946	5.3	58	40-140	8	30	E
Surrogato Decachlorahi	inhenvl	0.160		mg/ka wet	0.09728		164	30-150			SM
Surrogate Decachlorobi	inhenvl [2C]	0.177		mg/kg wet	0.09728		182	30-150			SM
Surrogate: Tetrachloro-r	merulene	0.0825		mg/kg wet	0.09728		85	30-150			
Surrogate: Tetrachloro-r	m-xylene [2C]	0.0919		mg/kg wet	0.09728		94	30-150			
Batch DE10600 - 354	00										
Blank											
Aroclor 1016		ND	0.02	ma/ka wet							
Aroclor 1016 [2C]		ND	0.02	mg/kg wet							
Aroclor 1221		ND	0.02	mg/ka wet							
Aroclor 1221 [2C]		ND	0.02	ma/ka wet							
			5.02	mg/kg wee							

2211 Tel: 401-461-7181 Dependability + Quality 

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10609 - 3540C										
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0249		mg/kg wet	0.02500		99	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140	2	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		97	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		93	40-140	3	30	
Surrogate: Decachlorobiphenyl	0.0256		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0259		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0241		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0249		mg/kg wet	0.02500		100	30-150			

Division of Thielsch Engineering, Inc.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

LABORAT

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
E	Reported above the quantitation limit; Estimated value (E).
D	Diluted.
CD+	Continuing Calibration %Diff/Drift is above control limit (CD+).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LUQ	Detection Limit
DL I/V	Initial Volume
F/V	Final Volume
8	Subcontracted analysis: see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0017

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0017	_
Shipped/Delivered Via: ESS Courier	Project Due Date: 5/10/2021 Days for Project: 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	
4. Is a Cooler Present? Yes Temp: <u>3.9</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes / No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes) a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes No a. Was there a need to contact the client? Yes No Who was contacted? Date:) Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	160888	Yes	N/A	Yes	4 oz. Jar	NP	· · · · · · · · · · · · · · · · · · ·
2	160889	Yes	N/A	Yes	4 oz. Jar	NP	
3	160890	Yes	N/A	Yes	4 oz. Jar	NP	
4	160891	Yes	N/A	Yes	4 oz. Jar	NP	
5	160892	Yes	N/A	Yes	4 oz. Jar	NP	
6	160893	Yes	N/A	Yes	4 oz. Jar	NP	
7	160894	Yes	N/A	Yes	4 oz. Jar	NP	
8	160895	Yes	N/A	Yes	4 oz. Jar	NP	
9	160896	Yes	N/A	Yes	4 oz. Jar	NP	
10	160897	Yes	N/A	Yes	4 oz. Jar	NP	
11	160898	Yes	N/A	Yes	4 oz. Jar	NP	
12	160899	Yes	N/A	Yes	4 oz. Jar	NP	
13	160900	Yes	N/A	Yes	4 oz. Jar	NP	
14	160901	Yes	N/A	Yes	4 oz. Jar	NP	
15	160902	Yes	N/A	Yes	4 oz. Jar	NP	
16	160903	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco En	aineers, Sci	entists & Sur	v - KPB/TB		ESS Project ID	:	21E0017	
Quert.		<u></u>				Date Received	:	5/3/2021	
17	160904	Yes	N/A	Yes	4 oz. Jar		NP		
18	160905	Yes	N/A	Yes	4 oz. Jar		NP		
19	160906	Yes	N/A	Yes	4 oz. Jar		NP		
20	160907	Yes	N/A	Yes	4 oz. Jar		NP		
2nd Review Were all co Are barcod Are all Flas Are all Hex Are all QC Are VOA si	w ontainers sca e labels on co hpoint sticker Chrome stick stickers attack tickers attack	anned into a prrect contai s attached/o ers attache hed? ed if bubble:	storage/lab? ners? container ID a d? s noted?	# circled?	Initials Yes / I Yes / I Yes / I Yes / I				
Completed By:	lay	W.W.	uzt-		Date & Time:	(81)	5131	2	
Reviewed By:	(<u>D</u>	<u> </u>		Date & Time:	5	321		

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· (38			Phone:	401-461	7181	Regula	tory State	Rhode I	Island	Criteria	: <0.5 m	ng/kg			Limit C	hecker		🛛 Sta	ate For	rms		QuIS			
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Client:	Cone	co Engi	ineers and Sc	ientists		Pr	oject Name	Pawtucket 1	Control H	ouse, 6 Thornto	on Street,	Pawtucket, R	u Client												Ħ
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Phone:			5086973	191		Proje	ct Manager	:		Katie Loftu	s	·	is compliant												nbe
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Distribution							PO#			5675.F			programs	808	151										Bot
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Preserv	vation	Code:	1-Non Pro	eserved 2-	HCI 3-H2S	04 4-HNC	3 5-NaOH	6-Methanol 7	7-Na2S2O3	8-ZnAce, Na	OH 9-N	H4C1 10-D	I H2O 11-Other*				+		+		\vdash				
S	Sample	d by :										Chain	needs to be fi	illed	out n	eatly	and	comp	lete	ly for	on ti	me d	eliver	y.	-1
Labo	orator	y Use C	Dnly	Con	iments:	* Please	e specify "	Other" pre	servativ	e and conta	ainers ty	ypes in th	is space		11 camr	les su	hmitt	ed are	subie	et to					
Cooler Temp	oroturo	(9C):	39	Nationa	l Grid Pro	iect, TSC	A requirem	ents, use ma	anual so?	xhlet extract	tion per	EPA meth	od 3540, Report		SS Lab	orator	v's pa	vment	terms	s and	Ľ	issolve	d Filtra	tion	
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	11.5	Fax: 40)1-461-4486		Is this projec	ct for any of the	following?:			Excel		[∃ Har	d Copy		🗆 En	iviro Da	ıta	
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Client:	Coneco Eng	gineers and Scie	entists	Project Name	Pawtucket 1 Contro	l House, 6 Thornton	n Street, Pawtucket, R	I Client											
Address:	4 First Stree	t, Bridgewater,	; MA	Project Location	6 Thorn	ton Street, Paw	tucket, RI	acknowledges											
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12		8=30 am			PS	- 173			Х										
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14		8:40 am			P	15-175			Х										
Lý		8=45 cm			F	25-176			Χ										
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Cont	tainer Type	: AC-Ai	ir Cassette AG-An	ber Glass B-BOD Bo	ttle C-Cubitainer	J-Jar O-Oth	er P-Poly S-Ste	erile V-Vial	AG										
Contai	ner Volume	: 1-100	mL 2-2.5 gal 3-	250 mL 4-300 mL 5	-500 mL 6-1L	7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	٩										
Preserv	vation Code	: 1-Non Pre	served 2-HCl 3-H2S	O4 4-HNO3 5-NaOH	6-Methanol 7-Na2S2	2O3 8-ZnAce, NaC	OH 9-NH4CI 10-DI	H2O 11-Other*	11										
S	ampled by	•					Chain	needs to be fi	lled	out ne	eatly a	ind o	comp	letely	for	on ti	me do	liver	<u>у.</u>
Labo	oratory Use	Only	Comments:	* Please specify "	Other" preserva	tive and contai	iners types in thi	is space	Al	l sampl	les sub	mitte	d are s	ubject	t to	- 0	issolve	l Filte	ation
Cooler Temp	erature (°C):	39	National Grid Pro	ject, TSCA requirem	ents, use manual	soxhlet extracti	on per EPA meth	od 3540, Report	ES	S Labo	ratory'	s pay	ment	terms a	and	17	1330110		
		100	dry weight, homo	genize sample, provi	le full data packa	$ge, \Pi = Ice$					con	ditio	ns.		Ī	[Lab Fi	ilter
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0018

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:29 pm, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0018

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21E0018-01	PS-182	Solid	8082A
21E0018-02	PS-183	Solid	8082A
21E0018-03	PS-184	Solid	8082A
21E0018-04	PS-185	Solid	8082A
21E0018-05	PS-186	Solid	8082A
21E0018-06	PS-187	Solid	8082A
21E0018-07	PS-188	Solid	8082A
21E0018-08	PS-189	Solid	8082A
21E0018-09	PS-190	Solid	8082A
21E0018-10	PS-191	Solid	8082A
21E0018-11	PS-192	Solid	8082A
21E0018-12	PS-193	Solid	8082A
21E0018-13	PS-194	Solid	8082A
21E0018-14	PS-195	Solid	8082A
21E0018-15	PS-196	Solid	8082A
21E0018-16	PS-197	Solid	8082A
21E0018-17	PS-198	Solid	8082A
21E0018-18	PS-199	Solid	8082A
21E0018-19	PS-200	Solid	8082A
21E0018-20	PS-201	Solid	8082A

ESS Laboratory Division of Thielsch Engineering, Inc.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0018

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

21E0018-01	Lower value is used due to matrix interferences (LC).
	Aroclor 1262 [2C]
21E0018-01	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1262 [2C]
21E0018-14	Lower value is used due to matrix interferences (LC).
	Aroclor 1254 [2C]
21E0018-14	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1254 [2C]
21E0018-14	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (205% @ 30-150%), Decachlorobiphenyl [2C] (242% @ 30-150%)
21E0018-15	Lower value is used due to matrix interferences (LC).
	Aroclor 1254 [2C]
21E0018-15	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1254 [2C]
21E0018-15	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (1180% @ 30-150%), Decachlorobiphenyl [2C] (833% @ 30-150%)
21E0018-16	Surrogate recovery(ies) below lower control limit (S-).
	Tetrachloro-m-xylene (29% @ 30-150%)
D1E0123-CCV4	Continuing Calibration %Diff/Drift is above control limit (CD+).
	Aroclor 1232 (21% @ 20%), Aroclor 1232 [2C] (22% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0018

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



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BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-182 Date Sampled: 04/28/21 09:15 Percent Solids: N/A Initial Volume: 5.54 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 15:00	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 15:00	D1E0067	DE10404
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 15:00	D1E0067	DE10404
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 15:00	D1E0067	DE10404
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 15:00	D1E0067	DE10404
Aroclor 1254	2.0 (0.09)		8082A		1	05/05/21 15:00	D1E0067	DE10404
Aroclor 1260	ND (0.09)		8082A		1	05/05/21 15:00	D1E0067	DE10404
Aroclor 1262 [2C]	P, LC 3.2 (0.2)		8082A		2	05/07/21 15:20	D1E0067	DE10404
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 15:00	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		58 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-183 Date Sampled: 04/28/21 09:20 Percent Solids: N/A Initial Volume: 5.22 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 05/05/21_15:20	Sequence	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
Aroclor 1254	1.4 (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
Aroclor 1260 [2C]	2.7 (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 15:20	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>65 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-184 Date Sampled: 04/28/21 09:25 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 15:40	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
Aroclor 1254	0.9 (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
Aroclor 1260 [2C]	1.5 (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 15:40	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-185 Date Sampled: 04/28/21 09:30 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 16:40	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 16:40	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 16:40	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 16:40	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 16:40	D1E0067	DE10404
Aroclor 1254	3.4 (0.1)		8082A		1	05/05/21 16:40	D1E0067	DE10404
Aroclor 1260 [2C]	5.3 (0.2)		8082A		2	05/07/21 15:40	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 16:40	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 16:40	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		58 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-186 Date Sampled: 04/28/21 09:35 Percent Solids: N/A Initial Volume: 5.5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 17:00	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 17:00	D1E0067	DE10404
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 17:00	D1E0067	DE10404
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 17:00	D1E0067	DE10404
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 17:00	D1E0067	DE10404
Aroclor 1254	3.2 (0.09)		8082A		1	05/05/21 17:00	D1E0067	DE10404
Aroclor 1260 [2C]	5.5 (0.2)		8082A		2	05/07/21 16:00	D1E0067	DE10404
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 17:00	D1E0067	DE10404
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 17:00	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		60 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150				



Division of Thielsch Engineering, Inc.

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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-187 Date Sampled: 04/28/21 09:40 Percent Solids: N/A Initial Volume: 5.56 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 19:59	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 19:59	D1E0067	DE10404
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 19:59	D1E0067	DE10404
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 19:59	D1E0067	DE10404
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 19:59	D1E0067	DE10404
Aroclor 1254	5.2 (0.4)		8082A		5	05/07/21 16:20	D1E0067	DE10404
Aroclor 1260 [2C]	8.9 (0.4)		8082A		5	05/07/21 16:20	D1E0067	DE10404
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 19:59	D1E0067	DE10404
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 19:59	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-188 Date Sampled: 04/28/21 09:45 Percent Solids: N/A Initial Volume: 5.21 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 20:19	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 20:19	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 20:19	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 20:19	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 20:19	D1E0067	DE10404
Aroclor 1254	5.4 (0.5)		8082A		5	05/07/21 16:39	D1E0067	DE10404
Aroclor 1260 [2C]	8.4 (0.5)		8082A		5	05/07/21 16:39	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 20:19	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 20:19	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-189 Date Sampled: 04/28/21 09:50 Percent Solids: N/A Initial Volume: 5.33 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 20:39	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 20:39	D1E0067	DE10404
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 20:39	D1E0067	DE10404
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 20:39	D1E0067	DE10404
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 20:39	D1E0067	DE10404
Aroclor 1254	2.9 (0.09)		8082A		1	05/05/21 20:39	D1E0067	DE10404
Aroclor 1260 [2C]	10.0 (0.5)		8082A		5	05/07/21 16:59	D1E0067	DE10404
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 20:39	D1E0067	DE10404
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 20:39	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-190 Date Sampled: 04/28/21 09:55 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 20:59	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 20:59	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 20:59	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 20:59	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 20:59	D1E0067	DE10404
Aroclor 1254	2.5 (0.1)		8082A		1	05/05/21 20:59	D1E0067	DE10404
Aroclor 1260 [2C]	9.2 (0.5)		8082A		5	05/07/21 17:19	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 20:59	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 20:59	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		58 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		75 %		30-150				


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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-191 Date Sampled: 04/28/21 10:00 Percent Solids: N/A Initial Volume: 5.64 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 21:19	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
Aroclor 1254	1.1 (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
Aroclor 1260 [2C]	2.0 (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 21:19	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>65 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-192 Date Sampled: 04/28/21 10:05 Percent Solids: N/A Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 21:39	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
Aroclor 1254	1.4 (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
Aroclor 1260 [2C]	2.2 (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 21:39	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-193 Date Sampled: 04/28/21 10:10 Percent Solids: N/A Initial Volume: 3.65 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 21:59	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
Aroclor 1254	2.7 (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
Aroclor 1260 [2C]	3.8 (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 21:59	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-194 Date Sampled: 04/28/21 10:15 Percent Solids: N/A Initial Volume: 2.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-13 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.2)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 22:19	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
Aroclor 1232	ND (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
Aroclor 1242	ND (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
Aroclor 1248	ND (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
Aroclor 1254	3.6 (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
Aroclor 1260 [2C]	5.7 (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
Aroclor 1262	ND (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
Aroclor 1268	ND (0.2)		8082A		1	05/05/21 22:19	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-195 Date Sampled: 04/28/21 10:20 Percent Solids: N/A Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-14 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
Aroclor 1254 [2C]	P, LC 0.3 (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
Aroclor 1260 [2C]	0.3 (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
Aroclor 1268 [2C]	0.3 (0.1)		8082A		1	05/05/21 22:38	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		205 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		242 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		32 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		36 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-196 Date Sampled: 04/28/21 10:25 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-15 Sample Matrix: Solid Units: mg/kg wet Analyst: DMC Prepared: 5/6/21 16:45

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/08/21 2:18	Sequence D1E0123	<u>Batch</u> DE10609
Aroclor 1221	ND (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
Aroclor 1232	ND (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
Aroclor 1242	ND (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
Aroclor 1248	ND (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
Aroclor 1254 [2C]	P, LC 0.4 (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
Aroclor 1260 [2C]	0.6 (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
Aroclor 1262	ND (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
Aroclor 1268	1.6 (0.1)		8082A		1	05/08/21 2:18	D1E0123	DE10609
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		1180 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		833 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		37 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		39 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-197 Date Sampled: 04/28/21 10:30 Percent Solids: N/A Initial Volume: 5.43 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-16 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 23:18	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
Aroclor 1254	0.6 (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
Aroclor 1260	0.8 (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 23:18	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		31 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		34 %		30-150				
Surrogate: Tetrachloro-m-xylene		29 %	<i>S</i> -	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		31 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-198 Date Sampled: 04/28/21 10:35 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-17 Sample Matrix: Solid Units: mg/kg wet Analyst: DMC Prepared: 5/6/21 16:45

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/08/21 2:37	Sequence D1E0123	<u>Batch</u> DE10609
Aroclor 1221	ND (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
Aroclor 1232	ND (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
Aroclor 1242	ND (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
Aroclor 1248	ND (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
Aroclor 1254	1.1 (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
Aroclor 1260	1.1 (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
Aroclor 1262	ND (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
Aroclor 1268	ND (0.1)		8082A		1	05/08/21 2:37	D1E0123	DE10609
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		52 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		53 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		63 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-199 Date Sampled: 04/29/21 08:00 Percent Solids: N/A Initial Volume: 5.26 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-18 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 23:58	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
Aroclor 1254	2.0 (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
Aroclor 1260 [2C]	2.6 (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 23:58	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		74 %		30-150				



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Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-200 Date Sampled: 04/29/21 08:05 Percent Solids: N/A Initial Volume: 5.51 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-19 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/06/21 0:18	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
Aroclor 1232	ND (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
Aroclor 1242	ND (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
Aroclor 1248	ND (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
Aroclor 1254	2.5 (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
Aroclor 1260 [2C]	3.5 (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
Aroclor 1262	ND (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
Aroclor 1268	ND (0.09)		8082A		1	05/06/21 0:18	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>79 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		85 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-201 Date Sampled: 04/29/21 08:10 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0018 ESS Laboratory Sample ID: 21E0018-20 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/06/21 0:38	Sequence D1E0067	<u>Batch</u> DE10404
Aroclor 1221	ND (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
Aroclor 1232	ND (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
Aroclor 1242	ND (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
Aroclor 1248	ND (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
Aroclor 1254	3.4 (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
Aroclor 1260 [2C]	2.8 (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
Aroclor 1262	ND (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
Aroclor 1268	ND (0.1)		8082A		1	05/06/21 0:38	D1E0067	DE10404
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		73 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150				



BAL Laboratory

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ESS Laboratory Work Order: 21E0018

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Datti DE10404 - 3340C										
Arcelor 1016	ND	0.02	ma/ka wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0254		mg/kg wet	0.02500		102	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		85	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		84	40-140			
Surrogate: Decachlorobiphenyl	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0250		mg/kg wet	0.02500		100	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		94	40-140	3	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140	5	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		87	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	5	30	
Surrogate: Decachlorohinhenvl	0.0206		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobinhenvl [20]	0.0219		mg/kg wet	0.02500		88	30-150			
Surrogate. Decachiorobiphenyi [2C]	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-yulepe [2C]	0.0245		mg/kg wet	0.02500		98	30-150			
Matrix Snike Source: 21E0019 02	-		5.5 - 5			-				
Platina Spike Source: 21E0018-03										



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ESS Laboratory Work Order: 21E0018

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10404 - 3540C										
Aroclor 1016	3.0	0.2	mg/kg wet	3.968	ND	77	40-140			
Aroclor 1016 [2C]	3.0	0.2	mg/kg wet	3.968	ND	74	40-140			
Aroclor 1260	4.3	0.2	mg/kg wet	3.968	1.4	73	40-140			
Aroclor 1260 [2C]	4.1	0.2	mg/kg wet	3.968	1.5	66	40-140			
Surroaste: Decechlorobinhenul	0.129		mg/ka wet	0.1984		65	30-150			
Surrogate: Decachiorobinhenvi [2C]	0.145		mg/kg wet	0.1984		73	30-150			
Surrogate: Tetrachloro-m-xvlene	0.149		mg/kg wet	0.1984		75	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/kg wet	0.1984		84	30-150			
Matrix Spike Dup Source: 21E0018-03										
Aroclor 1016	3.3	0.2	mg/kg wet	4.000	ND	83	40-140	9	30	
Aroclor 1016 [2C]	3.3	0.2	mg/kg wet	4.000	ND	83	40-140	11	30	
Aroclor 1260	4.6	0.2	mg/kg wet	4.000	1.4	82	40-140	8	30	
Aroclor 1260 [2C]	4.7	0.2	mg/kg wet	4.000	1.5	79	40-140	13	30	
Surrogate: Decachlorobiphenyl	0.145		mg/kg wet	0.2000		72	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.161		mg/kg wet	0.2000		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/kg wet	0.2000		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.187		mg/kg wet	0.2000		93	30-150			
Batch DE10609 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenvl	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate; Decachlorobiphenvl [2C]	0.0251		mg/kg wet	0.02500		100	30-150			
Surroqate: Tetrachloro-m-xylene	0.0226		mg/kg wet	0.02500		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0249		mg/kg wet	0.02500		99	30-150			
LCS										



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ESS Laboratory Work Order: 21E0018

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10609 - 3540C										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Surrogate: Decachlorobiphenyl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0255		mg/kg wet	0.02500		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0243		mg/kg wet	0.02500		97	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140	2	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		97	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		93	40-140	3	30	
Surrogate: Decachlorobiphenyl	0.0256		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0259		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.0241		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0249		mg/kg wet	0.02500		100	30-150			

Division of Thielsch Engineering, Inc.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

LABORAT

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0018

Notes and Definitions

U	ſ	Analyte included in the analysis, but not detected
S	М	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
S	-	Surrogate recovery(ies) below lower control limit (S-).
Р		Percent difference between primary and confirmation results exceeds 40% (P).
L	С	Lower value is used due to matrix interferences (LC).
D)	Diluted.
С	D+	Continuing Calibration %Diff/Drift is above control limit (CD+).
Ν	D	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dı	ry	Sample results reported on a dry weight basis
R	PD	Relative Percent Difference
Ν	1DL	Method Detection Limit
Ν	ÍRL	Method Reporting Limit
L	OD	Limit of Detection
L	UQ	Limit of Quantitation
D	L	
I/ E	V /1.7	
Г	v	Final volume
Ş		Subcontracted analysis; see attached report
1		Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2		Range result excludes concentrations of target analytes eluting in that range.
3		Range result excludes the concentration of the C9-C10 aromatic range.
A N	vg R	Results reported as a mathematical average.
Г(Calculated Analyte
۲ ۲		Subcontracted analysis: see attached report
R	L	Renorting Limit
F	ם זח	Estimated Detection Limit
	DL IF	Membrane Filtration
IV.	11 1DN	Most Drobably Number
IV. T	NTC	
		Colony Forming Units
U	гU	Colony Forming Units



BAL Laboratory

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Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

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ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0018	<u> </u>
Shipped/Delivered Via: ESS Courier	Project Due Date: 5/10/2021 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact? 9. Were labs informed about short holds & rushes?	Yes / No / NA
4. Is a Cooler Present? Yes Temp: 3.9 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Are the samples properly preserved? a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes No a. Was there a need to contact the client? Yes No Who was contacted? Date: Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	160908	Yes	N/A	Yes	4 oz. Jar	NP	
2	160909	Yes	N/A	Yes	4 oz. Jar	NP	
3	160910	Yes	N/A	Yes	4 oz. Jar	NP	
4	160911	Yes	N/A	Yes	4 oz. Jar	NP	
5	160912	Yes	N/A	Yes	4 oz. Jar	NP	
6	160913	Yes	N/A	Yes	4 oz. Jar	NP	
7	160914	Yes	N/A	Yes	4 oz. Jar	NP	
8	160915	Yes	N/A	Yes	4 oz. Jar	NP	
9	160916	Yes	N/A	Yes	4 oz. Jar	NP	
10	160917	Yes	N/A	Yes	4 oz. Jar	NP	
11	160918	Yes	N/A	Yes	4 oz. Jar	NP	
12	160919	Yes	N/A	Yes	4 oz. Jar	NP	
13	160920	Yes	N/A	Yes	4 oz. Jar	NP	
14	160921	Yes	N/A	Yes	4 oz. Jar	NP	
15	160922	Yes	N/A	Yes	4 oz. Jar	NP	
16	160923	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco En	gineers, Sci	ientists & Surv - I	KPB/TB	ES	S Project ID:	21E0018
17	160924	Yes	N/A	Yes	4 oz. Jar	NP	0/0/2021
18	160925	Yes	N/A	Yes	4 oz. Jar	NP	
19	160926	Yes	N/A	Yes	4 oz. Jar	NP	
20	160927	Yes	N/A	Yes	4 oz. Jar	NP	
2nd Review Were all co Are barcode Are all Flash Are all Hex Are all QC s Are VOA sti Completed By: Reviewed By:	ntainers sca e labels on co npoint stickers Chrome stick stickers attach ckers attache	anned into s prrect contain s attached/o ers attached hed? ed if bubbles	storage/lab? ners? container ID # cirr d? s noted?		Initials Yes/No/N Yes/No/N Yes/No/N Yes/No/N Yes/No/N Date & Time: Date & Time:	53/21 5/3/21	180(0

																			6
TICN		185 Fra	inces Avenue		CHAIN	OF CUS	TODY		ESS	Lab #	21	E	8	8	Pag	зe б.	x	of .	XK
		Cransto	on, RI 02910	Turn Time (Days)	☑ > 5 □ 5			🗖 Same Day		ELEC	TRONI	C DE	LIVE	RABLES	(Final	Repor	ts are	PDF)	
		Phone: 4	401-461-7181	Regulatory State:	Rhode Island	Criteria:	<0.5 mg/kg			imit Ch	ecker		State	Forms		EQuIS			
TAR 2 C AS	.,	Fax: 40	01-461-4486		Is this projec	ct for any of the	following?:			xcel			Hard	Сору		Enviro	Data		
INDORA	21	<u>www.essla</u>	aboratory.com	CT RCP	MA MCP	RGP	🗆 Permit	🗆 401 WQ		LP-Like	e Packag	e ⊻	Othe	r (Specify	$(y) \rightarrow 1$	PDF			_
	CLIENT I	NFORMAT	FION	1	PROJEC	CT INFORM	IATION				R	cQUI	ESTE	D ANA	LYSE	s			4
Client:	Coneco Eng	gineers and Sci	ientists	Project Name:	Pawtucket I Contro	l House, 6 Thornto	n Street, Pawtucket, I	Client											5
Address:	4 First Stree	et, Bridgewater	r, MA	Project Location:	6 Thorn	ton Street, Paw	tucket, RI	acknowledges				1							
			101	Project Number:		5675.F		that sampling											Ĩ
Phone:		5086973	191	Project Manager:		Katie Loftus		with all FPA /) er
Email				Bill to:		5675 E		State regulatory		2									1 B
Distribution List:				P0#:		30/3.F		programs	80	2) ti
	Jaevazelis, Mz	coller, Kloftus, dd	lifrancesco@coneco.con	n Quote#:		_			Bab	<u>3</u>									ŝ
ESS Lab ID	Date	Time	Sample Type	Sample Matrix		Sa	mple ID		PC <	-									
1	4/28/21	9:15 am	16rab	Solid	F	25-182			X										
2		9:20 pm		t t		PS-183			X										
2	<u> </u>	9-25				DC-184			1 v v									+	
3	<u>}</u> }_──	1205 AM				PC VCE	-						+		++				
4	<u> </u>	1:30 GM	┼─┼───			<u>PS-185</u>			<u>ا ۲</u>			_	+ +	+		_ _			┨──
5		9:35 am	·			PS-186	•		X		\rightarrow		_						<u> </u>
6		9:40 um				PS-187	7		X										
«		9:45 cm	,			PS-18	8		X									Ĩ	
8		9.50 000				PC-19	: с		V										
		Q. 57				$\frac{13}{90}$	<u>/</u>		$\left \cdot \right $									-	
4		1035 GM				<u>rs-[</u>	10			┥╋		_	+	┽╉					
10	<u> </u>	10:00 am		Ψ		PS-1	9										++	_ <u>_</u>	ļ
Con	itainer Type	: AC-A	Air Cassette AG-Am	ber Glass B-BOD Bot	tle C-Cubitainer	J-Jar O-Oth	er P-Poly S-S	terile V-Vial	AG							_			-
Contai	iner Volume	: 1-100) mL 2-2.5 gal 3-	250 mL 4-300 mL 5-	500 mL 6-1L	7-VOA 8-2 oz	9-4 oz 10-8 o	z 11-Other*	<u> </u>		-	_				_	+	——	-
Preser	vation Code	: I-Non Pr	reserved 2-HCI 3-H2S	04 4-HN03 5-NaOH 6	-Methanol 7-Na2S2	203 8-ZnAce, Na	OH 9-NH4CI 10-L	maada ta ha fi	11					otoly f		tima	dalia		<u> </u>
	Sampled by	:	1					needs to be n		out ne	auy a	na ce	Juibi	etery to	Dr Oll	ume	uenv	ery.	
Lab	oratory Use	Only	Comments:	* Please specify "C	ther" preserva	tive and conta	iners types in the	his space	All	sampl	es subn	nitted	are su	abject to		Dissol	ved Fi	Itratio	n
Cooler Temp	perature (°C):	3.9	National Grid Pro	ject, TSCA requireme genize sample provid	nts, use manual e full data nacka	soxhiet extraction in the solution of the solution is the solution of the solu	ion per EPA met	nod 3540, Report	ESS	S Labo	ratory's	payn	nent te	erms and	d _				
		10		genize sample, provid	e full data paoka	igo, 11 100			conditions.						Lab Filter				
Relinqu	ished by (Si	gnature)	Date	Time	Received by	(Signature)	Relinquis	hed by (Signature))	Ľ	Date		Τ	ime	R	eceive	d by (S	ignatu	ire)
K	15					5/3/21	Λ	-	ľ						TC	lar	101	Sa	JB
DurnA	Lan	mm	4/30/21	1:01 pn	In this	a 12:11	then the	and		513	<u>(2)</u>		6.4	4	5	312	11	oul	7
Relinqu	ished by (Si	gnature)	Date	Time	Received by	(Signature)	Relinquis	hed by (Signature)		E	Date		Π	ime	R	eceive	d by (S	ignatu	ire)

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Client:	Coneco	Engi	neers and Scie	entists		Proj	ect Name:	Pawtucket 1 Contr	ol House, 6 Thorn	ton Street, Pawtucket, R	I Client								1			
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72			8:10 pm		V		/		P	5-201		X										
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Contai	iner Vol	ume:	1-100	mL 2-2	2.5 gal 3-	250 mL 4-	300 mL 5-	-500 mL 6-1L	7-VOA 8-2	oz 9-4 oz 10-8 o	z 11-Other*	9										
Preser	vation (Code:	1-Non Pre	served 2	HCI 3-H2S	04 4-HNO3	5-NaOH 6	o-Methanol 7-Na2	S2O3 8-ZnAce, 1	VaOH 9-NH4CI 10-E	IH2O 11-Other*	11										
	Sampleo	i by :								Chain	needs to be fi	illed	l out n	eatly	and	comj	oletely	y foi	on t	ime d	lelive	ery.
Lab	oratory	Use C	Dnly	Con	nments:	* Please	specify "C	Other" preserv	ative and con	tainers types in th	nis space	A	.ll samp	oles su	ıbmitt	ed are	subjec	et to		Dissolv	ed Filt	ration
Casler Term	n o roturo (۰ <u>۰</u> ۰۰	3.9	Nationa	al Grid Pro	ject, TSCA	requireme	ents, use manua	al soxhlet extra	ction per EPA met	hod 3540, Report	E	SS Lab	orator	y's pa	yment	terms	and				
Cooler Temp	Cooler Temperature (°C): dry weight, ho					genize sam	ple, provid	le full data pack	(age, 1] = Ice					co	onditi	ons.					Lab	Filter
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BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0019

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 11:59 am, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0019

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21E0019-01	PS-202	Solid	8082A
21E0019-02	PS-203	Solid	8082A
21E0019-03	PS-204	Solid	8082A
21E0019-04	PS-205	Solid	8082A
21E0019-05	PS-206	Solid	8082A
21E0019-06	PS-207	Solid	8082A
21E0019-07	PS-208	Solid	8082A
21E0019-08	PS-209	Solid	8082A
21E0019-09	PS-210	Solid	8082A
21E0019-10	PS-211	Solid	8082A
21E0019-11	PS-212	Solid	8082A
21E0019-12	PS-213	Solid	8082A
21E0019-13	PS-214	Solid	8082A
21E0019-14	PS-215	Solid	8082A
21E0019-15	PS-216	Solid	8082A
21E0019-16	PS-217	Solid	8082A
21E0019-17	PS-218	Solid	8082A
21E0019-18	PS-219	Solid	8082A
21E0019-19	PS-220	Solid	8082A
21E0019-20	PS-221	Solid	8082A

ESS Laboratory Division of Thielsch Engineering, Inc.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0019

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

21E0019-05	Lower value is used due to matrix interferences (LC).
	Aroclor 1260 [2C]
21E0019-05	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1260 [2C]
21E0019-18	Lower value is used due to matrix interferences (LC).
	Aroclor 1254 [2C], Aroclor 1260 [2C]
21E0019-18	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1254 [2C], Aroclor 1260 [2C]
21E0019-19	Lower value is used due to matrix interferences (LC).
	Aroclor 1254 [2C]
21E0019-19	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1254 [2C]

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0019

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-202 Date Sampled: 04/29/21 08:15 Percent Solids: N/A Initial Volume: 5.15 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1254	2.1 (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1260	2.0 (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 15:05	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		75 %		30-150				



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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-203 Date Sampled: 04/29/21 08:20 Percent Solids: N/A Initial Volume: 5.66 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	Batch
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
Aroclor 1254	1.2 (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
Aroclor 1260	0.8 (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 15:25	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		64 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-204 Date Sampled: 04/29/21 08:25 Percent Solids: N/A Initial Volume: 5.29 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 15:45	Sequence D1E0068	<u>Batch</u> DE10405
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
Aroclor 1254 [2C]	1.4 (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
Aroclor 1260	0.7 (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 15:45	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-205 Date Sampled: 04/29/21 08:30 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.1) ND (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
Aroclor 1254	1.2 (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
Aroclor 1260	0.7 (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 16:05	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		65 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-206 Date Sampled: 04/29/21 08:35 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 17:05	Sequence D1E0068	<u>Batch</u> DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
Aroclor 1254	0.9 (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
Aroclor 1260 [2C]	P, LC 0.3 (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 17:05	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		57 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-207 Date Sampled: 04/29/21 08:40 Percent Solids: N/A Initial Volume: 5.66 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1018 Aroclor 1221	ND (0.09) ND (0.09)		8082A 8082A		1	05/05/21 20:04	D1E0068	DE10403
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 20:04	D1E0068	DE10405
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 20:04	D1E0068	DE10405
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 20:04	D1E0068	DE10405
Aroclor 1254	0.4 (0.09)		8082A		1	05/05/21 20:04	D1E0068	DE10405
Aroclor 1260 [2C]	0.9 (0.09)		8082A		1	05/05/21 20:04	D1E0068	DE10405
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 20:04	D1E0068	DE10405
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 20:04	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		82 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-208 Date Sampled: 04/29/21 08:45 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1254	0.5 (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1260 [2C]	1.1 (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 20:24	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		89 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-209 Date Sampled: 04/29/21 08:50 Percent Solids: N/A Initial Volume: 4.38 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1254	1.3 (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1260	1.9 (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 20:44	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		67 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-210 Date Sampled: 04/29/21 08:55 Percent Solids: N/A Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1254	0.5 (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1260 [2C]	0.8 (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 21:03	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		70 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-211 Date Sampled: 04/29/21 09:00 Percent Solids: N/A Initial Volume: 5.42 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 21:23	Sequence D1E0068	<u>Batch</u> DE10405
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
Aroclor 1254	0.4 (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
Aroclor 1260 [2C]	0.9 (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 21:23	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-212 Date Sampled: 04/29/21 09:05 Percent Solids: N/A Initial Volume: 5.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1221	ND (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1232	ND (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1242	ND (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1248	ND (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1254 [2C]	0.7 (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1260 [2C]	1.3 (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1262	ND (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
Aroclor 1268	ND (0.09)		8082A		1	05/05/21 21:43	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>79 %</i>		30-150				


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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-213 Date Sampled: 04/29/21 09:10 Percent Solids: N/A Initial Volume: 4.8 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 22:03	Sequence D1E0068	<u>Batch</u> DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
Aroclor 1254	1.6 (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
Aroclor 1260	2.4 (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 22:03	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-214 Date Sampled: 04/29/21 09:15 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-13 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1254	1.5 (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1260	2.0 (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 22:23	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		79 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-215 Date Sampled: 04/29/21 09:20 Percent Solids: N/A Initial Volume: 5.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-14 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 22:43	Sequence D1E0068	<u>Batch</u> DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
Aroclor 1254	2.0 (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
Aroclor 1260	2.7 (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 22:43	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-216 Date Sampled: 04/29/21 09:25 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-15 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1254	0.9 (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1260	1.2 (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 23:03	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-217 Date Sampled: 04/29/21 09:30 Percent Solids: N/A Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-16 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1254	0.2 (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1260	0.2 (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 23:22	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		35 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		36 %		30-150				
Surrogate: Tetrachloro-m-xylene		45 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-218 Date Sampled: 04/29/21 09:35 Percent Solids: N/A Initial Volume: 5.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-17 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/05/21 23:42	Sequence D1E0068	<u>Batch</u> DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
Aroclor 1254	ND (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
Aroclor 1260	0.2 (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/05/21 23:42	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		69 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-219 Date Sampled: 04/29/21 09:40 Percent Solids: N/A Initial Volume: 5.54 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-18 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1221	ND (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1232	ND (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1242	ND (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1248	ND (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1254 [2C]	P, LC 1.0 (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1260 [2C]	P, LC 1.0 (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1262	ND (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
Aroclor 1268	ND (0.09)		8082A		1	05/06/21 0:02	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		52 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		45 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-220 Date Sampled: 04/29/21 09:45 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-19 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

<u>Analyte</u>	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1254 [2C]	P, LC 1.1 (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1260	1.7 (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/06/21 0:22	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		58 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		54 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-221 Date Sampled: 04/29/21 09:50 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0019 ESS Laboratory Sample ID: 21E0019-20 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/4/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/06/21 0:42	Sequence D1E0068	<u>Batch</u> DE10405
Aroclor 1221	ND (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
Aroclor 1232	ND (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
Aroclor 1242	ND (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
Aroclor 1248	ND (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
Aroclor 1254	0.9 (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
Aroclor 1260	1.0 (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
Aroclor 1262	ND (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
Aroclor 1268	ND (0.1)		8082A		1	05/06/21 0:42	D1E0068	DE10405
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		59 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0019

Quality Control Data

	_	•		Spike	Source	A/ F = -	%REC	BF-	RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10405 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0228		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0231		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0244		mg/kg wet	0.02500		98	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		104	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		101	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		104	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		104	40-140			
Surrogate: Decachlorobiphenyl	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0229		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0231		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0240		mg/kg wet	0.02500		96	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		106	40-140	2	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		104	40-140	3	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		103	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		99	40-140	5	30	
Surrogate: Decachlorobinhenvl	0.0233		mg/kg wet	0.02500		93	30-150			
Surrogate: Decachlorobiphenyl [20]	0.0224		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-vvlene	0.0241		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.0252		mg/kg wet	0.02500		101	30-150			
Matrix Snike Source 21E0010.04										
Source: 21E0019-04										

Fax: 401-461-4486 http://www.ESSLaboratory.com

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Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0019

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DE10405 - 3540C										
Aroclor 1016	4.8	0.3	mg/kg wet	6.061	ND	79	40-140			
Aroclor 1016 [2C]	4.6	0.3	mg/kg wet	6.061	ND	75	40-140			
Aroclor 1260	5.1	0.3	mg/kg wet	6.061	0.7	73	40-140			
Aroclor 1260 [2C]	4.2	0.3	mg/kg wet	6.061	0.5	60	40-140			
Surrogate: Decachlorobiphenyl	0.217		mg/kg wet	0.3030		71	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/kg wet	0.3030		68	30-150			
Surrogate: Tetrachloro-m-xylene	0.239		mg/kg wet	0.3030		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.228		mg/kg wet	0.3030		75	30-150			
Matrix Spike Dup Source: 21E0019-04										
Aroclor 1016	4.8	0.3	mg/kg wet	5.780	ND	83	40-140	0.2	30	
Aroclor 1016 [2C]	4.2	0.3	mg/kg wet	5.780	ND	72	40-140	9	30	
Aroclor 1260	4.8	0.3	mg/kg wet	5.780	0.7	72	40-140	6	30	
Aroclor 1260 [2C]	4.1	0.3	mg/kg wet	5.780	0.5	61	40-140	3	30	
Surrogate: Decachlorobiphenvl	0.196		mg/kg wet	0.2890		68	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/kg wet	0.2890		67	30-150			
Surrogate: Tetrachloro-m-xylene	0.222		mg/kg wet	0.2890		77	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.217		mg/kg wet	0.2890		75	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0019

Notes and Definitions

U	Analyte included in the analysis, but not detected
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units
210	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0019

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID:	
Shipped/Delivered Via: ESS Courier	Date Received: 5/3/2021 Project Due Date: 5/10/2021 Days for Project: 5 Day	
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3 Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4 is a Cooler Present?	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No NA
Temp: <u>3.9</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes / No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes TNO ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yesy No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes / a. Was there a need to contact the client? Yes / Who was contacted? Date:	lo lo Time: By:	
	· · · · · · · · · · · · · · · · · · ·	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	160928	Yes	N/A	Yes	4 oz. Jar	NP	
2	160929	Yes	N/A	Yes	4 oz. Jar	NP	
3	160930	Yes	N/A	Yes	4 oz. Jar	NP	
4	160931	Yes	N/A	Yes	4 oz. Jar	NP	
5	160932	Yes	N/A	Yes	4 oz. Jar	NP	
6	160933	Yes	N/A	Yes	4 oz. Jar	NP	
7	160934	Yes	N/A	Yes	4 oz. Jar	NP	
8	160935	Yes	N/A	Yes	4 oz. Jar	NP	
9	160936	Yes	N/A	Yes	4 oz. Jar	NP	
10	160937	Yes	N/A	Yes	4 oz. Jar	NP	
11	160938	Yes	N/A	Yes	4 oz. Jar	NP	
12	160939	Yes	N/A	Yes	4 oz. Jar	NP	
13	160940	Yes	N/A	Yes	4 oz. Jar	NP	
14	160941	Yes	N/A	Yes	4 oz. Jar	NP	
15	160942	Yes	N/A	Yes	4 oz. Jar	NP	
16	160943	Yes	N/A	Yes	4 oz. Jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/T			v - KPB/TB	E	ESS Project ID:	21E0019			
				<u> </u>	l	Date Received:		5/3/2021	
17	160944	Yes	N/A	Yes	4 oz. Jar	N	>		
18	160945	Yes	N/A	Yes	4 oz. Jar	N	5		
19	160946	Yes	N/A	Yes	4 oz. Jar	N	>		
20	160947	Yes	N/A	Yes	4 oz. Jar	N			
2nd Review Were all co Are barcodo Are all Flas Are all Hex Are all QC a Are VOA st	w ontainers sca e labels on co hpoint stickers Chrome stick stickers attach ickers attache	nned into s rrect contai s attached/o ers attached ed? ed if bubbles	storage/lab? ners? container ID # d? s noted?	l circled?	nitials Yes / No Yes / No Yes / No Yes / No Yes / No	E E E E E			
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LYSK		Fax: 40)1-461-4486		Is this project for	any of the f	following?:		1 🗆 Е	xcel		ПН	ard Copy		Envir	o Data		
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Client:	Coneco	Engineers and Sci	entists	Project Name:	Pawtucket 1 Control House	e, 6 Thornton	Street, Pawtucket, I	RI Client										Г
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Contai	iner Volı	1-100 ime:	mL 2-2.5 gal 3-	250 mL 4-300 mL 5	-500 mL 6-1L 7-VO	A 8-2 oz	9-4 oz 10-8 o	z 11-Other*	9]
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1	Sampled	by:	-				Chain	needs to be fi	lled o	out nea	atly an	d com	pletely 1	for or	ı timo	e deliv	'ery.	
Lab	oratory	Use Only	Comments:	* Please specify "O	Other" preservative a	and contain	ners types in tl	his space	All	sample	s submi	tted are	e subject i	to	Dice	shoul F	Itratio	n
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	perature ((). <u> </u>	dry weight, homo	genize sample, provid	le full data package, 1	1 = Ice			1		condi	tions.				La	b Filter	
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Preservation Code:	1-100 mL 2-2.5 gai 3-2	50 mL 4-300 mL 5-	SOUML 6-IL	7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*						<u> </u>	+	\square	-
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	2 Q National Grid Proi	ect TSCA requireme	nts use manual	sovhlet extract	ion per EPA metho	s space	Al	l samples sub	nitted a	re subje	ect to	D	ssolved F	iltratio	n
Cooler Temperature (°C):	dry weight, homog	enize sample, provide	e full data packa	somet extract. age, $11 = Ice$	ion per ErA meute	3340, Report	ES	S Laboratory's	s payme	nt term	is and				
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 21E0020

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:11 pm, May 10, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0020

SAMPLE RECEIPT

The following samples were received on May 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21E0020-01	PS-222	Solid	8082A
21E0020-02	PS-223	Solid	8082A
21E0020-03	PS-224	Solid	8082A
21E0020-04	PS-225	Solid	8082A
21E0020-05	PS-226	Solid	8082A
21E0020-06	PS-227	Solid	8082A
21E0020-07	PS-228	Solid	8082A
21E0020-08	DUP-07	Solid	8082A
21E0020-09	DUP-08	Solid	8082A
21E0020-10	DUP-09	Solid	8082A
21E0020-11	DUP-10	Solid	8082A
21E0020-12	DUP-11	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0020

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

21E0020-07	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (262% @ 30-150%), Decachlorobiphenyl [2C] (236% @ 30-150%)
21E0020-10	Lower value is used due to matrix interferences (LC).
	Aroclor 1262 [2C]
21E0020-10	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1262 [2C]

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0020

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-222 Date Sampled: 04/29/21 09:55 Percent Solids: N/A Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 14:10	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
Aroclor 1254	1.1 (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
Aroclor 1262	1.2 (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 14:10	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		88 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		83 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-223 Date Sampled: 04/29/21 10:00 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 14:29	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
Aroclor 1254	1.2 (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
Aroclor 1260	0.9 (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 14:29	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		40 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		42 %		30-150				
Surrogate: Tetrachloro-m-xylene		37 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		44 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-224 Date Sampled: 04/29/21 10:05 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 14:48	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
Aroclor 1254	1.3 (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
Aroclor 1260	0.6 (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 14:48	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		48 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		54 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		61 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-225 Date Sampled: 04/29/21 10:10 Percent Solids: N/A Initial Volume: 5.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:08	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
Aroclor 1254	1.2 (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
Aroclor 1260	1.0 (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
Aroclor 1268	ND (0.09)		8082A		1	05/04/21 15:08	D1E0038	DE10324
	ç	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150				
Surrogate: Tetrachloro-m-xylene		51 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		58 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-226 Date Sampled: 04/29/21 10:15 Percent Solids: N/A Initial Volume: 5.29 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:27	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 15:27	D1E0038	DE10324
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 15:27	D1E0038	DE10324
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 15:27	D1E0038	DE10324
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 15:27	D1E0038	DE10324
Aroclor 1254	2.9 (0.09)		8082A		1	05/04/21 15:27	D1E0038	DE10324
Aroclor 1260 [2C]	5.8 (0.5)		8082A		5	05/06/21 4:25	D1E0038	DE10324
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 15:27	D1E0038	DE10324
Aroclor 1268	ND (0.09)		8082A		1	05/04/21 15:27	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		132 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		124 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>94 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-227 Date Sampled: 04/29/21 10:20 Percent Solids: N/A Initial Volume: 5.31 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 15:46	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 15:46	D1E0038	DE10324
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 15:46	D1E0038	DE10324
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 15:46	D1E0038	DE10324
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 15:46	D1E0038	DE10324
Aroclor 1254	12.2 (0.9)		8082A		10	05/06/21 4:44	D1E0038	DE10324
Aroclor 1260	27.8 (0.9)		8082A		10	05/06/21 4:44	D1E0038	DE10324
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 15:46	D1E0038	DE10324
Aroclor 1268	ND (0.09)		8082A		1	05/04/21 15:46	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		86 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>85 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-228 Date Sampled: 04/29/21 10:25 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 16:06	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 16:06	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 16:06	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 16:06	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 16:06	D1E0038	DE10324
Aroclor 1254	16.8 (1.0)		8082A		10	05/06/21 5:04	D1E0038	DE10324
Aroclor 1260	34.9 (1.0)		8082A		10	05/06/21 5:04	D1E0038	DE10324
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 16:06	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 16:06	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		262 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		236 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		79 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-07 Date Sampled: 04/29/21 10:30 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

<u>Analyte</u> Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 16:25	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
Aroclor 1254	2.8 (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
Aroclor 1260	2.8 (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 16:25	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		96 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-08 Date Sampled: 04/29/21 10:35 Percent Solids: N/A Initial Volume: 5.22 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 05/04/21 16:45	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
Aroclor 1254	1.8 (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
Aroclor 1262	2.2 (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 16:45	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-09 Date Sampled: 04/29/21 10:40 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 17:04	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
Aroclor 1254	2.6 (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
Aroclor 1260	ND (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
Aroclor 1262 [2C]	P, LC 2.0 (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 17:04	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-10 Date Sampled: 04/29/21 10:45 Percent Solids: N/A Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 17:23	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
Aroclor 1232	ND (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
Aroclor 1242	ND (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
Aroclor 1248	ND (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
Aroclor 1254	1.3 (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
Aroclor 1260	1.0 (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
Aroclor 1262	ND (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
Aroclor 1268	ND (0.1)		8082A		1	05/04/21 17:23	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>59 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		57 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-11 Date Sampled: 04/29/21 10:50 Percent Solids: N/A Initial Volume: 5.32 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21E0020 ESS Laboratory Sample ID: 21E0020-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 5/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.09)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 05/04/21 17:43	Sequence D1E0038	<u>Batch</u> DE10324
Aroclor 1221	ND (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
Aroclor 1232	ND (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
Aroclor 1242	ND (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
Aroclor 1248	ND (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
Aroclor 1254	1.1 (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
Aroclor 1260	1.1 (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
Aroclor 1262	ND (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
Aroclor 1268	ND (0.09)		8082A		1	05/04/21 17:43	D1E0038	DE10324
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		44 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		43 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		51 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0020

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		,			- /					
Batch DE10324 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0245		mg/kg wet	0.02500		98	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0242		mg/kg wet	0.02500		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			
LCS										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		88	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140			
Surrogate: Decachlorobinhenvl	0.0261		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Tetrachloro-m-xvlene	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		90	30-150			
LCS Dup										
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		87	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		88	40-140	2	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		92	40-140	4	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	4	30	
Surraate: Decachlarahinhanul	0.0250		mg/ka wet	0.02500		100	30-150			
Surrogate: Decachlorobinhenul [20]	0.0246		mg/kg wet	0.02500		98	30-150			
Surrogate: Decachiorophenyi [2C]	0.0220		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-sylene	0.0226		mg/kg wet	0.02500		90	30-150			
σαπογαίε. Τει αι ποιο-πι-χγιεπε [20]			5,5							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0020

Notes and Definitions

TI	Analyte included in the analysis, but not detected
U GM	Analyte included in the analysis, but not detected $(1, 0, 0, 0)$
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units
210	


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21E0020

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0020	_
Shipped/Delivered Via:ESS Courier	Project Due Date: 5/10/2021 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No 3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. is a Cooler Present? Yes Temp: 3.9 Iced with: Ice	9. Were labs informed about <u>short holds & rushes</u> ? 10. Were any analyses received outside of hold time?	Yes / Nor NA
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes Test Test Test Test Test Test Test Te	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yey / No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a pood to contract Project Manager?	<u> </u>	
a. Was there a need to contact the client? Yes No Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	160948	Yes	N/A	Yes	4 oz. Jar	NP	
2	160949	Yes	N/A	Yes	4 oz. Jar	NP	
3	160950	Yes	N/A	Yes	4 oz. Jar	NP	
4	160951	Yes	N/A	Yes	4 oz. Jar	NP	
5	160952	Yes	N/A	Yes	4 oz. Jar	NP	
6	160953	Yes	N/A	Yes	4 oz. Jar	NP	
7	160954	Yes	N/A	Yes	4 oz. Jar	NP	
8	160955	Yes	N/A	Yes	4 oz. Jar	NP	
9	160956	Yes	N/A	Yes	4 oz. Jar	NP	
10	160957	Yes	N/A	Yes	4 oz. Jar	NP	
11	160958	Yes	N/A	Yes	4 oz. Jar	NP	
12	160959	Yes	N/A	Yes	4 oz. Jar	NP	

Yes

Yes / N

 2nd Review
 Were all containers scanned into storage/lab?
 Initials_____

 Are barcode labels on correct containers?
 Are all Flashpoint stickers attached/container ID # circled?

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21E0020
	Date Received: 5/3/2021
Are all Hex Chrome stickers attached?	Yes / No //NA
Are all QC stickers attached?	Yes / No /NA
Are VOA stickers attached if bubbles noted?	Yes / No / NA)
Completed By: Reviewed By: Date 8	Time: 1758 513/21

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		Phone: 4	401-461-7181	Regulatory State:	Rhode Island	Criteria:	<0.5 mg/kg			Limit Ci	hecker	E] Stat	e Form	s C] EQul	S		
		Fax: 40	01-461-4486		Is this proje	ct for any of the	following?:		1 🗆 :	Excel		0] Har	d Copy	C] Envir	o Data		
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Address:	4 First Street	t, Bridgewater	r, MA	Project Location:	6 Thorn	ton Street, Paw	tucket, RI	acknowledges											Ě
				Project Number:		5675.F		that sampling											Nu l
Phone:		50869731	191	Project Manager:		Katie Loftus		is compliant											l ber
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ESS Lab ID	Date	Time	Sample Type	Sample Matrix		Sar	nple ID		PCI										
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Cont	tainer Type:	AC-A	ir Cassette AG-Am	ber Glass B-BOD Bot	tle C-Cubitainer	J-Jar O-Oth	er P-Poly S-S	terile V-Vial	ÁG										
Contai	ner Volume:	1-100	mL 2-2.5 gal 3-2	250 mL 4-300 mL 5-	500 mL 6-1L	7-VOA 8-2 oz	9-4 oz 10-8 oz	z 11-Other*	9										
Preserv	vation Code:	1-Non Pre	eserved 2-HCl 3-H2S	04 4-HNO3 5-NaOH 6	-Methanol 7-Na2S2	2O3 8-ZnAce, Na	DH 9-NH4Cl 10-E	IH2O 11-Other*	11										
s	ampled by :		.				Chain	needs to be fi	lled	out n	eatly a	and c	comp	letely	for o	n tim	e deliv	ery.	
Labo	oratory Use (Only	Comments:	* Please specify "C)ther" preserva	tive and contai	iners types in th	nis space	A	ll samp	les sub	mitte	d are s	subject	to	Diss	alved Fil	tratio	
Cooler Temp	erature (°C):	3.4	National Grid Pro	ject, TSCA requireme	ents, use manual	soxhlet extracti	on per EPA met	hod 3540, Report	ES	S Labo	oratory	's pay	ment	terms a	und	17135		ti atto	
		1 00	ary weight, nomo	genize sample, provid	е тип сата раска	ige, 11 = ice					con	idition	ns.		Г		Lab	Filter	
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		Fax: 40	01-461-4486		Is this proje	ect for any of the	e following?:			Excel			🗆 На	rd Copy	,		Enviro	Data		
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	CLIENT IN	NFORMAT	FION		PROJE	CT INFORM	ATION					REQ	UEST	ED A	NALY	YSES	S			
Client	: Coneco Engi	ineers and Sci	ientists	Project Name:	Pawtucket 1 Contro	ol House, 6 Thornto	m Street, Pawtucket, RI	Client												
Address	4 First Street	, Bridgewater	r, MA	Project Location:	6 Thor	nton Street, Paw	vtucket, RI	acknowledges									ŀ			otal
				Project Number:		5675.F		that sampling			{									N N
Phone	:	50869731	191	Project Manager:		Katie Loftus	3	is compliant												빨
Email				Bill to:				with all EPA /												l of
Distribution	L			PO#:		5675.F		State regulatory	808											Bo
List:	Jaevazelis, Mzo	oller, Kloftus, ddi	ifrancesco@coneco.com	Quote#:				programs	<u>۾</u>											ttles
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix		Sa	mpte ID		PCB:											
11	4/29/21	10:45 am	Grab	Solid		DUP-1	D		χ											
12	4/29/21	10:50 cm	6 rab	Solid		DUP -	- 1		\times				İ							
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Con	tainer Type:	AC-A	ir Cassette AG-Aml	per Glass B-BOD Bot	lle C-Cubitainer	r J-Jar O-Oth	er P-Poly S-Ster	ile V-Vial	AG											Н
Contai	iner Volume:	1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	500 mL 6-1L	7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*												1
Preser	vation Code:	1-Non Pre	eserved 2-HCI 3-H2S(04 4-HNO3 5-N₂OH 6	-Methanol 7-Na2S	2O3 8-ZnAce, Na	OH 9-NH4CI 10-DI H	i20 11-0ther*	11											1
5	Sampled by :						Chain n	eeds to be fil	led	out n	eatly	and	comp	letely	[,] for	on t	ime	deliv	ery.	
Lab	oratory Use (Only	Comments:	* Please specify "C	ther" preserva	ative and conta	iners types in this	space	A1	l samn	les su	hmitte	ed are	subjec	t to	_			-	
Cooler Temr	versture (°(''):	3.9	National Grid Proj	ect, TSCA requireme	nts, use manual	soxhlet extracti	ion per EPA metho	d 3540, Report	ES	S Labo	orator	v's pa	vment	terms	and		Dissolv	ed Fil	tratio	î.
Cooler reing	Ciature (C).	10-	dry weight, homog	genize sample, provid	e full data packa	age, 11 = Ice					cc	nditic	ons.	••••				Lob	Filtor	-
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Relinqu	ished by (Sig	nature)	Date	Time	Received by	(Signature)	Relinquishee	l by (Signature)			Date			Time		Re	ceived	by (S	ignatu	re)

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2110139

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 5:12 pm, Sep 14, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0139

SAMPLE RECEIPT

The following samples were received on September 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21I0139-01	PS-229	Solid	8082A
2110139-02	PS-230	Solid	8082A
2110139-03	PS-231	Solid	8082A
2110139-04	PS-232	Solid	8082A
2110139-05	PS-233	Solid	8082A
2110139-06	PS-234	Solid	8082A
2110139-07	PS-235	Solid	8082A
2110139-08	PS-236	Solid	8082A
2110139-09	PS-237	Solid	8082A
2110139-10	PS-238	Solid	8082A
2110139-11	PS-239	Solid	8082A
2110139-12	PS-240	Solid	8082A
2110139-13	PS-241	Solid	8082A
2110139-14	PS-242	Solid	8082A
2110139-15	PS-243	Solid	8082A
2110139-16	PS-244	Solid	8082A
2110139-17	PS-245	Solid	8082A
2110139-18	PS-246	Solid	8082A
2110139-19	PS-247	Solid	8082A
2110139-20	PS-249	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0139

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

2110139-04	<u>Surrogate recovery(ies) below lower control limit (S-).</u>
	Decachlorobiphenyl (29% @ 30-150%)
2110139-08	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (154% @ 30-150%), Decachlorobiphenyl [2C] (170% @ 30-150%)
2110139-10	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (252% @ 30-150%), Decachlorobiphenyl [2C] (280% @ 30-150%)
2110139-13	Surrogate recovery(ies) below lower control limit (S-).
	Decachlorobiphenyl (27% @ 30-150%)
2110139-16	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (339% @ 30-150%), Decachlorobiphenyl [2C] (366% @ 30-150%)
2110139-17	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (693% @ 30-150%), Decachlorobiphenyl [2C] (781% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0139

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-229 Date Sampled: 09/01/21 11:00 Percent Solids: N/A Initial Volume: 5.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 6:56	Sequence D1I0091	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
Aroclor 1254 [2C]	2.2 (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
Aroclor 1260 [2C]	2.8 (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 6:56	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		81 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-230 Date Sampled: 09/01/21 11:10 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 7:15	Sequence D1I0091	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 7:15	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 7:15	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 7:15	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 7:15	D1I0091	DI10306
Aroclor 1254 [2C]	1.6 (0.1)		8082A		1	09/10/21 7:15	D1I0091	DI10306
Aroclor 1260 [2C]	1.8 (0.1)		8082A		1	09/10/21 7:15	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 7:15	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 7:15	D110091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-231 Date Sampled: 09/01/21 11:15 Percent Solids: N/A Initial Volume: 2.94 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/13/21 15:45

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed	Sequence	Batch
Aroclor 1018 Aroclor 1221	ND (0.3)		8082A 8082A		1	09/14/21 13:32	D110190	DI11305
Aroclor 1232	ND (0.3)		8082A		1	09/14/21 13:32	D1I0190	DI11305
Aroclor 1242	ND (0.3)		8082A		1	09/14/21 13:32	D1I0190	DI11305
Aroclor 1248	ND (0.3)		8082A		1	09/14/21 13:32	D1I0190	DI11305
Aroclor 1254 [2C]	1.3 (0.3)		8082A		1	09/14/21 13:32	D1I0190	DI11305
Aroclor 1260	0.8 (0.3)		8082A		1	09/14/21 13:32	D1I0190	DI11305
Aroclor 1262	ND (0.3)		8082A		1	09/14/21 13:32	D1I0190	DI11305
Aroclor 1268	ND (0.3)		8082A		1	09/14/21 13:32	D1I0190	DI11305
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		36 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		38 %		30-150				
Surrogate: Tetrachloro-m-xylene		48 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		55 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-232 Date Sampled: 09/01/21 11:20 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/13/21 15:45

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u>	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1221	ND (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1232	ND (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1242	ND (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1248	ND (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1254 [2C]	0.9 (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1260	0.5 (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1262	ND (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
Aroclor 1268	ND (0.2)		8082A		1	09/14/21 13:51	D1I0190	DI11305
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		29 %	<i>S</i> -	30-150				
Surrogate: Decachlorobiphenyl [2C]		31 %		30-150				
Surrogate: Tetrachloro-m-xylene		35 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		43 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-233 Date Sampled: 09/01/21 13:00 Percent Solids: N/A Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed	Sequence D110091	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 8:14	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 8:14	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 8:14	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 8:14	D1I0091	DI10306
Aroclor 1254 [2C]	0.6 (0.1)		8082A		1	09/10/21 8:14	D1I0091	DI10306
Aroclor 1260 [2C]	0.5 (0.1)		8082A		1	09/10/21 8:14	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 8:14	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 8:14	D110091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		41 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		45 %		30-150				
Surrogate: Tetrachloro-m-xylene		44 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		52 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-234 Date Sampled: 09/01/21 13:10 Percent Solids: N/A Initial Volume: 5.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL) ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 8:34	Sequence D1I0091	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 8:34	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 8:34	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 8:34	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 8:34	D1I0091	DI10306
Aroclor 1254	0.5 (0.1)		8082A		1	09/10/21 8:34	D1I0091	DI10306
Aroclor 1260 [2C]	0.2 (0.1)		8082A		1	09/10/21 8:34	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 8:34	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 8:34	D110091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		40 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		43 %		30-150				
Surrogate: Tetrachloro-m-xylene		41 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		50 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-235 Date Sampled: 09/01/21 13:20 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1254	0.6 (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1262	0.3 (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 8:54	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		57 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		62 %		30-150				
Surrogate: Tetrachloro-m-xylene		53 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		58 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-236 Date Sampled: 09/01/21 13:25 Percent Solids: N/A Initial Volume: 5.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 9:14	Sequence D1I0091	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 9:14	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 9:14	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 9:14	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 9:14	D1I0091	DI10306
Aroclor 1254 [2C]	1.0 (0.1)		8082A		1	09/10/21 9:14	D1I0091	DI10306
Aroclor 1260 [2C]	0.8 (0.1)		8082A		1	09/10/21 9:14	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 9:14	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 9:14	D110091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		154 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		170 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-237 Date Sampled: 09/01/21 13:30 Percent Solids: N/A Initial Volume: 5.18 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1254 [2C]	0.9 (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1262	0.7 (0.1)		8082A		1	09/10/21 9:34	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 9:34	D110091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		70 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-238 Date Sampled: 09/01/21 13:35 Percent Solids: N/A Initial Volume: 5.24 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21I0139 ESS Laboratory Sample ID: 21I0139-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1254 [2C]	2.0 (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1260 [2C]	1.7 (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 9:54	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		252 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		280 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		78 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-239 Date Sampled: 09/01/21 08:05 Percent Solids: N/A Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-11 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	<u>Analyzed</u> 09/10/21 10:14	Sequence D110091	Batch DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
Aroclor 1254	0.8 (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
Aroclor 1262	0.8 (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 10:14	D1I0091	DI10306
	ç	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		64 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		72 %		30-150				
Surrogate: Tetrachloro-m-xylene		58 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		67 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-240 Date Sampled: 09/01/21 08:15 Percent Solids: N/A Initial Volume: 5.24 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-12 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{\mathbf{I}}$	Analyzed	Sequence	Batch
Aroclor 1010	ND (0.1)		8082A		1	09/10/21 10:34	D110091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 10:34	D110091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 10:34	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 10:34	D1I0091	DI10306
Aroclor 1254 [2C]	1.5 (0.1)		8082A		1	09/10/21 10:34	D1I0091	DI10306
Aroclor 1260 [2C]	1.4 (0.1)		8082A		1	09/10/21 10:34	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 10:34	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 10:34	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		72 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-241 Date Sampled: 09/01/21 08:20 Percent Solids: N/A Initial Volume: 5.22 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-13 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1) ND (0.1)		8082A		1	09/10/21 10:54	D110091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 10:54	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 10:54	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 10:54	D1I0091	DI10306
Aroclor 1254 [2C]	0.2 (0.1)		8082A		1	09/10/21 10:54	D1I0091	DI10306
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 10:54	D1I0091	DI10306
Aroclor 1262	0.1 (0.1)		8082A		1	09/10/21 10:54	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 10:54	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		27 %	<i>S</i> -	30-150				
Surrogate: Decachlorobiphenyl [2C]		31 %		30-150				
Surrogate: Tetrachloro-m-xylene		31 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		31 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-242 Date Sampled: 09/01/21 09:00 Percent Solids: N/A Initial Volume: 1.08 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-14 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21_11:14	Sequence	<u>Batch</u> DI10306
Aroclor 1221	ND (0.5)		8082A		1	09/10/21 11:14	D110091	DI10306
Aroclor 1232	ND (0.5)		8082A		1	09/10/21 11:14	D1I0091	DI10306
Aroclor 1242	ND (0.5)		8082A		1	09/10/21 11:14	D1I0091	DI10306
Aroclor 1248	ND (0.5)		8082A		1	09/10/21 11:14	D1I0091	DI10306
Aroclor 1254 [2C]	4.6 (0.5)		8082A		1	09/10/21 11:14	D1I0091	DI10306
Aroclor 1260 [2C]	2.7 (0.5)		8082A		1	09/10/21 11:14	D1I0091	DI10306
Aroclor 1262	ND (0.5)		8082A		1	09/10/21 11:14	D1I0091	DI10306
Aroclor 1268	ND (0.5)		8082A		1	09/10/21 11:14	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		100 %		30-150				
Surrogate: Tetrachloro-m-xylene		89 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		104 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-243 Date Sampled: 09/01/21 09:20 Percent Solids: N/A Initial Volume: 5.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-15 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 16:53	Sequence D110091	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
Aroclor 1254 [2C]	3.6 (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
Aroclor 1260 [2C]	2.3 (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 16:53	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		110 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		120 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-244 Date Sampled: 09/01/21 09:25 Percent Solids: N/A Initial Volume: 4.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-16 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 09/10/21_17:13	Sequence	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
Aroclor 1254 [2C]	2.4 (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
Aroclor 1260 [2C]	1.6 (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
Aroclor 1268 [2C]	0.7 (0.1)		8082A		1	09/10/21 17:13	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		339 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		366 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		63 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		75 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-245 Date Sampled: 09/01/21 09:30 Percent Solids: N/A Initial Volume: 4.66 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-17 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	<u>Batch</u> DI10306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 17:32	D110091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 17:32	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 17:32	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 17:32	D1I0091	DI10306
Aroclor 1254 [2C]	4.1 (0.1)		8082A		1	09/10/21 17:32	D1I0091	DI10306
Aroclor 1260 [2C]	3.1 (0.1)		8082A		1	09/10/21 17:32	D1I0091	DI10306
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 17:32	D1I0091	DI10306
Aroclor 1268 [2C]	1.6 (0.1)		8082A		1	09/10/21 17:32	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		693 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		781 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-246 Date Sampled: 09/01/21 10:00 Percent Solids: N/A Initial Volume: 5.37 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-18 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.09)		8082A		1	09/10/21 17:52	D110091	DI10306
Aroclor 1221	ND (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
Aroclor 1232	ND (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
Aroclor 1242	ND (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
Aroclor 1248	ND (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
Aroclor 1254	1.7 (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
Aroclor 1260	ND (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
Aroclor 1262 [2C]	1.8 (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
Aroclor 1268	ND (0.09)		8082A		1	09/10/21 17:52	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		60 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		52 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-247 Date Sampled: 09/01/21 10:30 Percent Solids: N/A Initial Volume: 5.05 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-19 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	09/10/21 18:12	D110091	D110306
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
Aroclor 1254	1.9 (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
Aroclor 1262	2.8 (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 18:12	D1I0091	DI10306
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		75 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-249 Date Sampled: 09/01/21 10:45 Percent Solids: N/A Initial Volume: 5.33 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110139 ESS Laboratory Sample ID: 2110139-20 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/3/21 20:30

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.09)		8082A		1	09/10/21 18:32	D110091	D110306
Aroclor 1221	ND (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
Aroclor 1232	ND (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
Aroclor 1242	ND (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
Aroclor 1248	ND (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
Aroclor 1254	2.6 (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
Aroclor 1260	ND (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
Aroclor 1262	3.2 (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
Aroclor 1268	ND (0.09)		8082A		1	09/10/21 18:32	D1I0091	DI10306
	ç	%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		77 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0139

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch DI10306 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0234		mg/kg wet	0.02500		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0216		mg/kg wet	0.02500		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0252		mg/kg wet	0.02500		101	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		93	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		93	40-140			
	0.0239		ma/ka wet	0 02500		96	30-150			
Surrogate: Decachiorobiphenyi	0.0235		mg/kg wet	0.02500		100	30-150			
Surrogate: Decachiorobiphenyi [2C]	0.0275		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.0243		ma/ka wet	0.02500		97	30-150			
Surrogate: Tetracnioro-m-xylene [2C]	0.02.10			0.02000						
Arcelor 1016	0.5	0.02	ma // a wat	0 5000		00	40.140	0.2	20	
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		90	40-140	0.2	20	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140	3	20	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		95	40-140	3	30	
	0.5	0.02	mg/kg wet	0.5000		72	40-140	2	50	
Surrogate: Decachlorobiphenyl	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0249		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0236		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0253		mg/kg wet	0.02500		101	30-150			
Matrix Spike Source: 2110139-14										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0139

Quality Control Data

l	<u> </u>			Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DI10306 - 3540C										
Aroclor 1016	5.7	0.4	mg/kg wet	7.092	ND	80	40-140			
Aroclor 1016 [2C]	5.6	0.4	mg/kg wet	7.092	ND	79	40-140			
Aroclor 1260	8.1	0.4	mg/kg wet	7.092	2.0	86	40-140			
Aroclor 1260 [2C]	8.1	0.4	mg/kg wet	7.092	2.7	77	40-140			
Surrogate: Decachlorobiphenyl	0.301		mg/kg wet	0.3546		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.320		mg/kg wet	0.3546		90	30-150			
Surrogate: Tetrachloro-m-xylene	0.278		mg/kg wet	0.3546		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.296		mg/kg wet	0.3546		84	30-150			
Matrix Spike Dup Source: 2110139-14										
Aroclor 1016	6.0	0.3	mg/kg wet	6.757	ND	89	40-140	6	30	
Aroclor 1016 [2C]	6.0	0.3	mg/kg wet	6.757	ND	89	40-140	7	30	
Aroclor 1260	8.2	0.3	mg/kg wet	6.757	2.0	93	40-140	2	30	
Aroclor 1260 [2C]	8.5	0.3	mg/kg wet	6.757	2.7	86	40-140	4	30	
	0.300		ma/ka wet	0.3378		89	30-150			
Surrogate: DecachioroDipnenyl	0.331		mg/kg wet	0.3378		98	30-150			
Surroyate: DecachioroDiphenyl [2C]	0.283		mg/ka wet	0.3378		84	30-150			
Surrogate: Tetrachloro-m-yylene	0.306		mg/ka wet	0.3378		90	30-150			
Sunogale. 1 eu achioro-in-xylene [2C]										
Blank	ND	0.05	ma //							
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclar 1242	ND	0.05	mg/kg wet							
ALUCIUL 1242		0.05	mg/kg wet							
Aroclar 1242 [2C]		0.05	mg/kg wet							
Aroclor 1240		0.05	mg/kg wet							
Aroclor 1254		0.05	mg/kg wet							
Aroclor 1254 [20]		0.05	mg/kg wet							
Araclar 1260	םא חע	0.05	mg/kg wet							
Aroclor 1260 [2C]		0.05	mg/kg wet							
Aroclor 1262	ND	0.05	ma/ka wet							
Aroclor 1262 [2C]	ND	0.05	mg/ka wet							
Aroclor 1268	ND	0.05	mg/ka wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
			-							
Surrogate: Decachlorobiphenyl	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0206		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0221		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 2110139

Quality Control Data

A set to	Denut	MDI	11-24-	Spike	Source	0/ DEC	%REC		RPD	0
Analyte	Kesuit	MKL	Units	Level	Result	%REC	Limits	KPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DI11305 - 3540C										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		94	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		92	40-140			
Surrogate: Decachlorobiphenyl	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0207		mg/kg wet	0.02500		83	30-150			
Surrogate: Tetrachloro-m-xylene	0.0234		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0237		mg/kg wet	0.02500		<i>95</i>	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		90	40-140	0.5	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		87	40-140	4	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		91	40-140	4	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		89	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0208		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0201		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0228		mg/kg wet	0.02500		91	30-150			
- Surrogate: Tetrachloro-m-xvlene [2C]	0.0225		mg/kg wet	0.02500		90	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0139

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
S-	Surrogate recovery(ies) below lower control limit (S-).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
F/V	Final volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
AVg	Results reported as a mathematical average.
	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
KL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0139

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

> Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB</u>	ESS Project ID: 21/0139 Date Received: 9/3/2021	
Shipped/Delivered Via: ESS Courier	Project Due Date:	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	9. Were labs informed about <u>short holds & rush</u>	25? Yes / No / NA
4. Is a Cooler Present? Yes Temp: 4.1 Iced with: Ice	10. Were any analyses received outside of hold tin	ne? Yes / No
5. Was COC signed and dated by client? Yes		· · · · · · · · · · · · · · · · · · ·
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? Yes /* a. Was there a need to contact the client? Yes /* Who was contacted? Date:	No No Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	204181	Yes	N/A	Yes	4 oz. Jar	NP	
2	204182	Yes	N/A	Yes	4 oz. Jar	NP	
3	204183	Yes	N/A	Yes	4 oz. Jar	NP	
4	204184	Yes	N/A	Yes	4 oz. Jar	NP	
5	204185	Yes	N/A	Yes	4 oz. Jar	NP	
6	204186	Yes	N/A	Yes	4 oz. Jar	NP	
7	204187	Yes	N/A	Yes	4 oz. Jar	NP	
8	204188	Yes	N/A	Yes	4 oz. Jar	NP	
9	204189	Yes	N/A	Yes	4 oz. Jar	NP	
10	204190	Yes	N/A	Yes	4 oz. Jar	NP	
11	204191	Yes	N/A	Yes	4 oz. Jar	NP	
12	204192	Yes	N/A	Yes	4 oz. Jar	NP	
13	204193	Yes	N/A	Yes	4 oz. Jar	NP	
14	204194	Yes	N/A	Yes	4 oz. Jar	NP	
15	204195	Yes	N/A	Yes	4 oz. Jar	NP	
16	204196	Yes	N/A	Yes	4 oz. Jar	NP	
ESS Laboratory Sample and Cooler Receipt Checklist

Client	Coneco Eng	gineers, Sci	entists & Su	rv - KPB/TB	ESS Dat	S Project ID: e Received:	2110139 9/3/2021	
17	204197	Yes	N/A	Yes	4 oz. Jar	NP		
18	204198	Yes	N/A	Yes	4 oz. Jar	NP		
19	204199	Yes	N/A	Yes	4 oz. Jar	NP		
20	204200	Yes	N/A	Yes	4 oz. Jar	NP		
2nd Review Initials Were all containers scanned into storage/lab? Initials Are barcode labels on correct containers? Initials Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA Are all Hex Chrome stickers attached? Yes / No / NA Are all QC stickers attached? Yes / No / NA Are VOA stickers attached if bubbles noted? Yes / No / NA								
Completed By: Reviewed By:	4	20+			Date & Time:	-21 / alsty	8:26 1918	

		185 Frar	nces Avenue			СНА	IN OF (CUS	TODY			ESS	Lab	#)		0130	<u></u>	F	age	1	of	3
		Cransto	n, RI 02921	7	iurn Time (Day	s) □> 5 ~ 式	□4 I	3	□2 □1	1 🗆 9	Same Day		ELEC	TRO	NIC DI	ELIVE	RABLE	S (Fin	al Rej	ports a	are PD	F)
		Phone: 4	01-461-7181	R	egulatory State	e: Rhodpl	sim) Cri	iteria:	LU. 501	iem			limit C	hecker	E] Stat	te Forms		EQu	IS		
	<u> </u>	Fax: 40	1-461-4486			Is this p	roject for any	of the f	following?:			D I	Excel		E] Har	d Copy		Env	iro Da	ta	
LADORAL		<u>www.essla</u>	boratory.com	<u>n</u> .[*]CT RCP	□ MA MCF	P □RC	GP	Permit		401 WQ	□ (CLP-Li	ke Pacl	kage -	🔇 Oth	er (Speci	i fy) →	PD	F		
	CLIENT II	NFORMAT	ION	ي ب		PRO	JECT INF	ORM	ATION					ŀ	REQU	ESTI	ED AN2	ALYS	ES			
Client	: Coneco Eng	ineers & Scier	tists, Inc		Project Name	e: Pawtru	ket 1 cont	rol HOU	ńc.		Client											Ŧ
Address	4 First Street	t		·····	Project Location	n: 67hornte	n street	Paw	whet RI	ac	knowledges											otal
	Bridgewater	, Massachuset	ts 02324		Project Number	r:	<u>5675.F</u>	- -			at sampling				· ·							Nu
Phone:	: 508-697-319	91		'	Project Manage	r:K	Katie ho	frus		— wi	ith all EPA /	5										nber
Email	Jaevar	elis, mzoll	er, Kloftv	5,	Bill to	e: Environmen	ital AP				State	2										e.
Distribution List:	C Machvil	n d Keuine Un Ocon	t, mash;	,	PO#	#: <u>5</u>	675 F	.10	(,Ч	· 1	regulatory	5										Bott
	Collection	Collection	CLO.LOM		Quote	#:					programs	8										les
ESS Lab ID	Date	Time	Sample T	ype S	ample Matrix			Sam	iple ID			d.										
ì	9/1/21	11:00 an	Grab		Paint		P 5-2	-29				X										Ì
2		11:10 an	1		Ĩ.		PS = 2	230				IΧ				ŀ						Ĩ
3		11:15 an					PS-	231				X							\square	-		
4		11:20am					PS-	23	2			Ύχ										1
5		1:00 pm					PS-	23	3			X									\square	
6		1-10 pm					PS-	236	÷			Х									\square	1
>		1:20 pm					PS-	239	5			X										1
ç		1:25 pm					PS-?	236	0			X										
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10	₩	1:35pm	\downarrow		\checkmark		PS-	238	š			X										1
Con	ntainer Type:	AC-Ai	r Cassette A	G-Amber C	ilass B-BOD Bo	ottle C-Cubita	iner J-Jar	O-Other	τ P-Poly S	S-Sterile	V-Vial	Aù										
Conta	iner Volume:	1-100	mL 2-2.5 gal	3-250 n	1L 4-300 mL	5-500 mL 6-1	L 7-VOA	8-2 oz	9-4 oz 10-8	8 oz 11-	-Other*	9							\square	·		_10
Preser	rvation Code:	1-Non Pres	served 2-HCl	3-H2SO4 4	-HNO3 5-NaOH	6-Methanol 7-N	a2S2O3 8-ZnA	ce, NaOl	H 9-NH4CI 10	0-DI H2O	11-Other*											
	Sampled by :	MLL	<u>· /DCK</u>	<u>~/ (v</u>	HN				Chain	n need	ls to be fil	ed o	ut ne	atly a	and c	omp	letely f	lor 01	a tir	ie de	liver	<u>y</u> .
Lab	oratory Use	Only	Commen	its: * F	'lease specify "	'Other" prese	ervative and	contai	ners types in '4 C + C	n this sp RF, Z	PA 3540	All	samp	les sul	omitte	d are s	subject 1	to	Diss	olved	Filtra	tion
Cooler Temp	perature (°C):	4.1	TSCA	{{= ;	le l	[aill	side of 1	Repo	rt dy	- dree	gut,	ESS	Labo	oratory	's pay	ment (terms ar	nd				
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Page 32 of 33

185 Frances Avenue	CHAI	N OF CUSTODY	E	SS Lab # 2 [L0139	Page	a of	3
Cranston, RI 02921	Turn Time (Days) □>5 🕅 5		Same Day	ELECTRONI	C DELIVERABLES (Final Rep	orts are P	DF)
Phone: 401-461-7181	Regulatory State: Rhole /1/20	d Criteria: LO.5 ppm	· C	Limit Checker	□ State Forms	🗆 EQul	IS	
Fax: 401-461-4486	Is this proj	ject for any of the following?:		Excel	Hard Copy	🗆 Envir	ro Data	
IADORALORY www.esslaboratory.com	□CT RCP □MA MCP	□RGP □Permit	□401 WQ □	CLP-Like Packag	ge 🖞 Other (Specify)	,→POF	>	
CLIENT INFORMATION	PROJE	CT INFORMATION		RE	QUESTED ANAL	YSES		
Client: Coneco Engineers & Scientists, Inc	Project Name: Pawiviker	1 Control House B.I.	Client					
Address: 4 First Street	Project Location:	Thunkler	acknowledges					otal
Bridgewater, Massachusetts 02324	Project Number: 5	675.F	that sampling					
Phone: 508-697-3191	Project Manager:	Catie Lottus	with all EPA /	<u>s</u>				mbe
Email Jaunichismicollenkiothis,	Bill to: Environmental	1 AP	State					I of
Distribution (macuch,) Learney, Mhash,	PO#: 56	75. F, 101.4	regulatory (3				Bott
List: Mabelle @ core (v. com	Quote#:	н. Т	programs (85				lles
ESS Lab ID Collection Collection Sample Type	Sample Matrix	Sample ID	¢	- 2				
11 9/1/21 8:05 an Grab	Paint	PS-239		X IIII				1
12 1 8:15 am		15-240	5					
13 8:20 an		PS-241	5					
14 9:00 m		P5-242						
15 9:20 AM		PS-743	5					
16 9:25 an		PS-244		X				
17 9:30 m		PJ-245	×					
1% 10:00 an		P5-746	X					
19 10:30 am		P5-247	5					
20 V 1045am		PS-249	ý					
Container Type: AC-Air Cassette AG-Am	ber Glass B-BOD Bottle C-Cubitaine	er J-Jar O-Other P-Poly S-St	erile V-Vial A	6-7				1
Container Volume: 1-100 mL 2-2.5 gal 3-2	250 mL 4-300 mL 5-500 mL 6-1L	7-VOA 8-2 oz 9-4 oz 10-8 oz	: 11-Other* 9	+				\Box'^{ϱ}
Preservation Code: 1-Non Preserved 2-HCl 3-H2S	O4 4-HNO3 5-NaOH 6-Methanol 7-Na2s	S2O3 8-ZnAce, NaOH 9-NH4Cl 10-D	IH2O 11-Other*					
Sampled by : MUDCIC/ MI	4N	Chain r	eeds to be fille	d out neatly ar	nd completely for	e on tim	e delive	ry.
Laboratory Use Only Comments:	* Please specify "Other" preserv	ative and containers types in th	uis space	All samples subn	nitted are subject to			
Cooler Temperature (°C): 4//	2 Manual Jorg	y weight homes	ence I	ESS Laboratory's	payment terms and	Disso	olved Hiltr	ation
1 Ce TSI A 9. N	ational (and Projec	f FUIL Data Pai	crage	cond	itions.		Lab F	filter
Relinquished by (Signature) Date	Time Received b	y (Signature) Relinquish	ed by (Signature)	Date	Time	Receiv	ed by (Sig	nature)
		9/3/11		a		1	197	3-21
Munkell 912/2021	Liston for De	2 10:18 Ja Au	M	1/3/27	16:42	In	$-\mathcal{U}_{1}$	6.42
Relinquished by (Signature) Date	Time Received by	y (Signature) Relinquish	ed by (Signature)	Date	Time	Receive	ed by (Sig	nature)

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 2110140

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 4:14 pm, Sep 13, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0140

SAMPLE RECEIPT

The following samples were received on September 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21I0140-01	PS-250	Solid	8082A
2110140-02	PS-251	Solid	8082A
21I0140-03	DUP-08	Solid	8082A
21I0140-04	PS-248	Solid	8082A
2110140-05	PS-252	Solid	8082A
21I0140-06	DUP-07	Solid	8082A
2110140-07	PS-253	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0140

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

21I0140-05	<u>Surrogate recovery(ies) diluted below the MRL (SD).</u>
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
DI10707-MS2	<u>Matrix Spike recovery is below lower control limit (M-).</u>
	Aroclor 1260 (-188% @ 40-140%), Aroclor 1260 [2C] (-141% @ 40-140%)
DI10707-MSD2	<u>Matrix Spike recovery is below lower control limit (M-).</u>
	Aroclor 1260 (-10% @ 40-140%), Aroclor 1260 [2C] (-2% @ 40-140%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0140

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-250 Date Sampled: 09/01/21 13:40 Percent Solids: N/A Initial Volume: 4.25 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110140 ESS Laboratory Sample ID: 2110140-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.1)		8082A 8082A		1	09/10/21 21:39	D110072	DI10707
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 21:39	D1I0072	DI10707
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 21:39	D1I0072	DI10707
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 21:39	D1I0072	DI10707
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 21:39	D1I0072	DI10707
Aroclor 1260	24.1 (1.2)		8082A		10	09/12/21 11:38	D1I0072	DI10707
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 21:39	D1I0072	DI10707
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 21:39	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		80 %		30-150				
Surrogate: Tetrachloro-m-xylene		86 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-251 Date Sampled: 09/01/21 13:45 Percent Solids: N/A Initial Volume: 4.94 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110140 ESS Laboratory Sample ID: 2110140-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
Aroclor 1260	28.6 (1.0)		8082A		10	09/12/21 11:58	D1I0072	DI10707
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 21:58	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-08 Date Sampled: 09/01/21 14:00 Percent Solids: N/A Initial Volume: 4.97 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110140 ESS Laboratory Sample ID: 2110140-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	09/10/21 22:17	D110072	DI10707
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
Aroclor 1254	1.9 (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
Aroclor 1260	1.9 (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 22:17	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		63 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		68 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-248 Date Sampled: 09/01/21 14:15 Percent Solids: N/A Initial Volume: 5.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110140 ESS Laboratory Sample ID: 2110140-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 23:15	Sequence D110072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
Aroclor 1242	2.9 (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
Aroclor 1260	ND (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
Aroclor 1262	3.5 (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 23:15	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-252 Date Sampled: 09/02/21 08:00 Percent Solids: N/A Initial Volume: 5.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110140 ESS Laboratory Sample ID: 2110140-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 80824	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1221	ND (9.9)		8082A 8082A		100	09/12/21 12:36	D110159	DI10707
Aroclor 1232	ND (9.9)		8082A		100	09/12/21 12:36	D1I0159	DI10707
Aroclor 1242	ND (9.9)		8082A		100	09/12/21 12:36	D1I0159	DI10707
Aroclor 1248	ND (9.9)		8082A		100	09/12/21 12:36	D1I0159	DI10707
Aroclor 1254 [2C]	282 (9.9)		8082A		100	09/12/21 12:36	D1I0159	DI10707
Aroclor 1260	207 (9.9)		8082A		100	09/12/21 12:36	D1I0159	DI10707
Aroclor 1262	ND (9.9)		8082A		100	09/12/21 12:36	D1I0159	DI10707
Aroclor 1268	ND (9.9)		8082A		100	09/12/21 12:36	D1I0159	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		%	SD	30-150				
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene		%	SD	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: DUP-07 Date Sampled: 09/02/21 08:05 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110140 ESS Laboratory Sample ID: 2110140-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 23:53	Sequence D1I0072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.1)		8082A		1	09/10/21 23:53	D1I0072	DI10707
Aroclor 1232	ND (0.1)		8082A		1	09/10/21 23:53	D1I0072	DI10707
Aroclor 1242	ND (0.1)		8082A		1	09/10/21 23:53	D1I0072	DI10707
Aroclor 1248	ND (0.1)		8082A		1	09/10/21 23:53	D1I0072	DI10707
Aroclor 1254	ND (0.1)		8082A		1	09/10/21 23:53	D1I0072	DI10707
Aroclor 1260	26.1 (1.0)		8082A		10	09/12/21 12:55	D1I0072	DI10707
Aroclor 1262	ND (0.1)		8082A		1	09/10/21 23:53	D1I0072	DI10707
Aroclor 1268	ND (0.1)		8082A		1	09/10/21 23:53	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		70 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		79 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-253 Date Sampled: 09/02/21 08:30 Percent Solids: N/A Initial Volume: 5.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110140 ESS Laboratory Sample ID: 2110140-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 0:51	Sequence D1I0072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.1)		8082A		1	09/11/21 0:51	D1I0072	DI10707
Aroclor 1232	ND (0.1)		8082A		1	09/11/21 0:51	D1I0072	DI10707
Aroclor 1242	ND (0.1)		8082A		1	09/11/21 0:51	D1I0072	DI10707
Aroclor 1248	ND (0.1)		8082A		1	09/11/21 0:51	D1I0072	DI10707
Aroclor 1254	ND (0.1)		8082A		1	09/11/21 0:51	D1I0072	DI10707
Aroclor 1260	27.0 (1.0)		8082A		10	09/12/21 13:53	D1I0072	DI10707
Aroclor 1262	ND (0.1)		8082A		1	09/11/21 0:51	D1I0072	DI10707
Aroclor 1268	ND (0.1)		8082A		1	09/11/21 0:51	D110072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		69 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0140

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DI10707 - 35400										
Aroclor 1016		0.05	ma/ka wet							
Aroclor 1016 [2C]		0.05	mg/kg wet							
Aroclor 1010 [20]		0.05	mg/kg wet							
Aroclor 1221 [2C]		0.05	mg/kg wet							
Aroclor 1232		0.05	mg/kg wet							
Aroclor 1232 [2C]		0.05	mg/kg wet							
Aroclar 1242		0.05	mg/kg wet							
Arodor 1242		0.05	mg/kg wet							
Arodor 1242 [20]		0.05	mg/kg wet							
Arodor 1248 [20]		0.05	mg/kg wet							
		0.05								
Arodor 1254		0.05	mg/kg wet							
Arodor 1254 [20]		0.05	mg/kg wet							
		0.05	mg/kg wet							
		0.05	mg/kg wet							
	ND	0.05	mg/kg wet							
Aroclar 1262 [2C]	ND	0.05	mg/kg wet							
	ND	0.05	mg/kg wet							
Arocior 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0232		mg/kg wet	0.02500		<i>93</i>	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		95	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		97	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		94	40-140			
Surrogate: Decachlorobiphenyl	0.0236		mg/kg wet	0.02500		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0235		mg/kg wet	0.02500		94	30-150			
LCS Dup										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		85	40-140	11	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		83	40-140	9	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		88	40-140	10	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	9	30	
Surragata: Dagachlarabishar d	0.0215		ma/ka wet	0.02500		86	30-150			
Surragate: DecadinoroDipnenyi	0.0215		ma/ka wet	0.02500		82	30-150			
Surrogate: Decachiorom wilcos	0.0210		ma/ka wet	0.02500		84	30-150			
Surrogate, ieuachiuro-madere (201	0.0207		ma/ka wet	0.02500		83	30-150			
							100			
Matrix Spike Source: 2110140-03	5									



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0140

Quality Control Data

Analvte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Oualifier
			8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch DI10707 - 35400											
Aroclor 1016		1.6	0.1	ma/ka wet	1.976	ND	80	40-140			
Aroclor 1016 [2C]		1.6	0.1	mg/kg wet	1.976	ND	79	40-140			
Aroclor 1260		3.4	0.1	mg/kg wet	1.976	1.9	74	40-140			
Aroclor 1260 [2C]		2.7	0.1	mg/kg wet	1.976	1.7	53	40-140			
Surrogate: Decachlorobiphe	nvl	0.0611		mg/kg wet	0.09881		62	30-150			
Surrogate: Decachlorobiphe	nvl [2C]	0.0652		mg/kg wet	0.09881		66	30-150			
Surrogate: Tetrachloro-m-xv	vlene	0.0722		mg/kg wet	0.09881		73	30-150			
Surrogate: Tetrachloro-m-xy	vlene [2C]	0.0779		mg/kg wet	0.09881		79	30-150			
Matrix Spike	Source: 2110140-06										
Aroclor 1016		1.6	0.1	mg/kg wet	1.976	ND	81	40-140			
Aroclor 1016 [2C]		1.4	0.1	mg/kg wet	1.976	ND	69	40-140			
Aroclor 1260		22.4	1.0	mg/kg wet	1.976	26.1	NR	40-140			M-
Aroclor 1260 [2C]		19.7	1.0	mg/kg wet	1.976	22.5	NR	40-140			M-
Surrogate: Decachlorobiphe	nvl	0.0596		mg/kg wet	0.09881		60	30-150			
Surrogate: Decachlorobiphe	nvl [2C]	0.0572		mg/kg wet	0.09881		58	30-150			
Surrogate: Tetrachloro-m-xy	vlene	0.0590		mg/kg wet	0.09881		60	30-150			
Surrogate: Tetrachloro-m-xy	vlene [2C]	0.0631		mg/kg wet	0.09881		64	30-150			
Matrix Spike Dup	Source: 2110140-03										
Aroclor 1016		1.5	0.1	mg/kg wet	1.980	ND	78	40-140	2	30	
Aroclor 1016 [2C]		1.5	0.1	mg/kg wet	1.980	ND	76	40-140	4	30	
Aroclor 1260		3.3	0.1	mg/kg wet	1.980	1.9	69	40-140	3	30	
Aroclor 1260 [2C]		2.6	0.1	mg/kg wet	1.980	1.7	49	40-140	3	30	
Surrogate: Decachlorobiphe	nyl	0.0593		mg/kg wet	0.09901		60	30-150			
Surrogate: Decachlorobiphe	nyl [2C]	0.0580		mg/kg wet	0.09901		59	30-150			
Surrogate: Tetrachloro-m-xy	vlene	0.0701		mg/kg wet	0.09901		71	30-150			
Surrogate: Tetrachloro-m-xy	vlene [2C]	0.0753		mg/kg wet	0.09901		76	30-150			
Matrix Spike Dup	Source: 2110140-06										
Aroclor 1016		1.9	0.1	mg/kg wet	1.984	ND	98	40-140	20	30	
Aroclor 1016 [2C]		1.7	0.1	mg/kg wet	1.984	ND	87	40-140	23	30	
Aroclor 1260		25.9	1.0	mg/kg wet	1.984	26.1	NR	40-140	15	30	M-
Aroclor 1260 [2C]		22.4	1.0	mg/kg wet	1.984	22.5	NR	40-140	13	30	M-
Surrogate: Decachlorobiphe	nyl	0.0868		mg/kg wet	0.09921		88	30-150			
Surrogate: Decachlorobiphe	nyl [2C]	0.0798		mg/kg wet	0.09921		80	30-150			
Surrogate: Tetrachloro-m-xy	vlene	0.0732		mg/kg wet	0.09921		74	30-150			
Surrogate: Tetrachloro-m-xy	vlene [2C]	0.0781		mg/kg wet	0.09921		79	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0140

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
M-	Matrix Spike recovery is below lower control limit (M-).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
	Detection Limit
I/ V F/V	Final Volume
17 V e	
<u>8</u> 1	Subcontracted analysis; see allached report
2	Range result excludes concentrations of target analytes eluting in that range
3	Range result excludes the concentration of the C9-C10 aromatic range
Avg	Results reported as a mathematical average
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0140

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 2110140	
Shipped/Delivered Via: ESS Courier	Project Due Date: 9/13/2021	
· · · · · · · · · · · · · · · · · · ·	Days for Project: 5 Day	—
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2 Were custody sage present?	7. Is COC complete and correct?	Yes
	8. Were samples received intact?	Yes
3. Is radiation count <100 CPM? Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No (NA)
4. Is a Cooler Present? Yes Temp: 4.1 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes /No
5. Was COC signed and dated by client? Yes		<u> </u>
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / 😡 Yes / No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: 	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager?	Yes / No Yes / No	
Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	204213	Yes	N/A	Yes	4 oz. Jar	NP	
2	204214	Yes	N/A	Yes	4 oz. Jar	NP	
3	204215	Yes	N/A	Yes	4 oz. Jar	NP	
4	204216	Yes	N/A	Yes	4 oz. Jar	NP	
5	204217	Yes	N/A	Yes	4 oz. Jar	NP	
6	204218	Yes	N/A	Yes	4 oz. Jar	NP	
7	204219	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

Were all containers scanned into storage/lab?

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Are all Hex Chrome stickers attached? Are all QC stickers attached?

Are VOA stickers attached if bubbles noted?

Initials_ (fes / No Yes / No /NA Yes / No /NA (10) / No / NA Yes / No / NA)

ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco Engineers, Scientists & Surv - KPB/TB		ESS Project ID:	2110140	
-	101		/pate,Received:	9/3/2021	
By:		Date & Time:	<u>7-5-2 (</u>	18:23	
Reviewed By:	- Dlt	Date & Time:	9/3/21	1915	

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	34	195 Eron	Avenue		CHAIN C)F CUS	STODY		ESS	Lab #	21	To	140		Page	3	of	3
H		Cransto	n. RI 02921	Turn Time (Days)) □> 5 🖌 5 □4	3		Same Day		ELEC	FRONI	C DELI	VERABL	ES (F	inal Re	ports a	re PDF)	
(23)		Phone: 4	01-461-7181	Regulatory State	: Rhode Island	Criteria:	<0.50pm		🗆 Li	mit Ch	ecker		State Form	is	🗆 EQ	uIS		
	3/3 ·	Fax: 40	1-461-4486		Is this project fo	or any of the	following?:	· · · · ·		ccel			Hard Copy	7	D Env	viro Data	ł	
LABORAL	22Y	<u>www.essla</u>	boratory.com	□CT RCP	П МА МСР	□RGP	□Permit	□401 WQ		LP-Lik	e Packaş	ge 🖌 🗄	Other (Spe	cify) -	→ Þi	PF		
	CLIENT I	NFORMAT	TION	1	PROJECT	INFORM	IATION				RF	QUES	STED AF	NALY	(SES			
Client	: Coneco Eng	ineers & Scien	ntists, Inc	Project Name	: Pawivicket 1 Cor	thol Hou	je	Client						•				
Address	: 4 First Stree	1		Project Location	: 6 thorn ton st.	Pawtri	icet RI	acknowledges										DE 1
	Bridgewater	, Massachuset	ts 02324	Project Number	: 5675.	F		that sampling	ŝ									N
Phone	: 508-697-319	91	<u> </u>	Project Manager	: <u>Kahe Lof</u>	fv:		with all EPA /	£						1			nber
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List:	M1462[[2	e une	to.tom	Quote#	•			programs										les
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix		Sa	mple ID		Ĵ							·		
1	9/11/21	1:40pm	Grab	Paint	PS-	250			X									1
7		1:45 om	ſ	Ì	PS-	251			X									1
3	J y and	1 2:00 pm			DUP	- 08			XX	4					ŀ			1
4	9/2/210	2.6pm		l l	29	-248			X (-					ľ.		1
5	9/2/21	8:00 am			PS-	252			X								\square	1.
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Co	ntainer Type:	AC-Ai	ir Cassette AG-Amb	ber Glass B-BOD Bo	ttle C-Cubitainer J	I-Jar O-Oth	ner P-Poly S-	Sterile V-Vial	AG	,								
Conta	iner Volume	: 1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5	5-500 mL 6-1L 7-V	OA 8-2 oz	9-4 oz 10-8	oz 11-Other*	9-	>]/_
Prese	rvation Code:	1-Non Pre	served 2-HCl 3-H2SC	04 4-HNO3 5-NaOH	6-Methanol 7-Na2S2O3	8-ZnAce, Na	OH 9-NH4C1 10-	DIH2O 11-Other*	11+	7								
	Sampled by :	MUI	DCKIMF	í.N			Chain	needs to be fil	led o	ut nea	atly a	nd cor	npletely	y for	on ti	ne de	livery.	•
Lat	ooratory Use	Only	Comments:	* Please specify "	Other" preservative	e and conta	iners types in	this space	All	sample	es subr	nitted a	re subiec	t to	n	achied	Filtrotic	
Cooler Tem	perature (°C).	4.1	TSLA II	= ice	MANJA JOXA	e ant d	m weight	humogenize,	ESS	Labo	ratory's	payme	ent terms	and	DR	sorveu .	enti auto	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F.101.4) ESS Laboratory Work Order Number: 21J0814

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:10 pm, Nov 01, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0814

SAMPLE RECEIPT

The following samples were received on October 22, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Matrix

Solid

Solid

Solid

Lab Number 21J0814-01 21J0814-02 21J0814-03 Sample Name PS-254 PS-255 PS-256

Analysis 8082A 8082A 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0814

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0814

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-254 Date Sampled: 10/21/21 08:59 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0814 ESS Laboratory Sample ID: 21J0814-01 Sample Matrix: Solid Units: mg/kg wet Analyst: JLG Prepared: 10/28/21 20:05

Analyte Aroclor 1016	Results (MRL) ND (0.1)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/29/21 14:34	Sequence D1J0491	<u>Batch</u> DJ12805
Aroclor 1221	ND (0.1)		8082A		1	10/29/21 14:34	D1J0491	DJ12805
Aroclor 1232	ND (0.1)		8082A		1	10/29/21 14:34	D1J0491	DJ12805
Aroclor 1242	ND (0.1)		8082A		1	10/29/21 14:34	D1J0491	DJ12805
Aroclor 1248	ND (0.1)		8082A		1	10/29/21 14:34	D1J0491	DJ12805
Aroclor 1254	3.8 (0.1)		8082A		1	10/29/21 14:34	D1J0491	DJ12805
Aroclor 1260 [2C]	7.8 (0.5)		8082A		5	10/29/21 15:32	D1J0491	DJ12805
Aroclor 1262	ND (0.1)		8082A		1	10/29/21 14:34	D1J0491	DJ12805
Aroclor 1268	ND (0.1)		8082A		1	10/29/21 14:34	D1J0491	DJ12805
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		38 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		44 %		30-150				
Surrogate: Tetrachloro-m-xylene		45 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		39 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-255 Date Sampled: 10/21/21 09:03 Percent Solids: N/A Initial Volume: 5.44 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0814 ESS Laboratory Sample ID: 21J0814-02 Sample Matrix: Solid Units: mg/kg wet Analyst: JLG Prepared: 10/25/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
Aroclor 1221	ND (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
Aroclor 1232	ND (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
Aroclor 1242	ND (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
Aroclor 1248	ND (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
Aroclor 1254	2.1 (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
Aroclor 1260	6.7 (0.5)		8082A		5	10/29/21 10:23	D1J0446	DJ12506
Aroclor 1262	ND (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
Aroclor 1268	ND (0.09)		8082A		1	10/27/21 17:49	D1J0446	DJ12506
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>49 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		60 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: PS-256 Date Sampled: 10/21/21 09:11 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0814 ESS Laboratory Sample ID: 21J0814-03 Sample Matrix: Solid Units: mg/kg wet Analyst: JLG Prepared: 10/25/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.1)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 18:08	Sequence D1J0446	<u>Batch</u> DJ12506
Aroclor 1221	ND (0.1)		8082A		1	10/27/21 18:08	D1J0446	DJ12506
Aroclor 1232	ND (0.1)		8082A		1	10/27/21 18:08	D1J0446	DJ12506
Aroclor 1242	ND (0.1)		8082A		1	10/27/21 18:08	D1J0446	DJ12506
Aroclor 1248	ND (0.1)		8082A		1	10/27/21 18:08	D1J0446	DJ12506
Aroclor 1254	7.3 (0.5)		8082A		5	10/29/21 10:43	D1J0446	DJ12506
Aroclor 1260	10.9 (0.5)		8082A		5	10/29/21 10:43	D1J0446	DJ12506
Aroclor 1262	ND (0.1)		8082A		1	10/27/21 18:08	D1J0446	DJ12506
Aroclor 1268	ND (0.1)		8082A		1	10/27/21 18:08	D1J0446	DJ12506
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>85 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0814

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
-		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DJ12506 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0257		mg/kg wet	0.02500		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene	0.0239		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0242		mg/kg wet	0.02500		97	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		105	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Surrogate: Decachlorobiphenyl	0.0271		mg/kg wet	0.02500		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0250		mg/kg wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0258		mg/kg wet	0.02500		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0249		mg/kg wet	0.02500		100	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		97	40-140	1	30	
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		93	40-140	1	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		107	40-140	1	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140	1	30	
Surragater Decachlarabinhand	0.0274		ma/ka wet	0.02.500		110	30-1.50			
Surragte Decemberghindonul [20]	0.0251		mg/ka wet	0.02500		100	30-150			
Surrogate: Tetrachloro-m-vulene	0.0260		mg/ka wet	0.02500		104	30-150			
Surrogate: Tetrachloro-m-sylene [20]	0.0252		mg/kg wet	0.02500		101	30-150			
	-									
Batch DJ12805 - 3540C										

Fax: 401-461-4486 <u>http://www</u>

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Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0814

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DJ12805 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0247		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0230		mg/kg wet	0.02500		<i>92</i>	30-150			
Surrogate: Tetrachloro-m-xylene	0.0231		mg/kg wet	0.02500		<i>92</i>	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0240		mg/kg wet	0.02500		96	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		99	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		90	40-140			
Surrogate: Decachlorobiphenvl	0.0248		mg/kg wet	0.02500		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0235		mg/kg wet	0.02500		94	30-150			
Surrogate: Tetrachloro-m-xylene	0.0238		mg/kg wet	0.02500		95	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0231		mg/kg wet	0.02500		93	30-150			
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		92	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		89	40-140	2	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		101	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140	2	30	
Surrogate: Decachlorobinhenvl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobinhenvl [20]	0.0237		mg/kg wet	0.02500		95	30-150			
Surrogate: Tetrachloro-m-yvlene	0.0239		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-vulene [2C]	0.0233		mg/kg wet	0.02500		93	30-150			
Sunogale. Teu achioro-Ill-Xylelle [20]			5,5							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0814

Notes and Definitions

TT	Analysis included in the analysis but not detected
U D	Analyte included in the analysis, but not detected
D	
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LUQ	Limit of Quantitation
DL	
F/ V	Final volume
Ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CEU	Colony Forming Units
010	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0814

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

> Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

ShippedDelvered Via: ESS Courter 10/22/2021 Date Received: 10/22/2021 Day for Project: 5 Day Ar No: No 0. 2. Were custody seats present? No 3. Is radiation courd -100 CMr? Yes 4. Is a Cooler Present? Yes 5. Were custody seats present? Yes 6. Were samples received intact? Yes 7. Is COC complete and corred? Yes 8. Were tabs informed about short holds 5, ustner? Yes / No (P) 9. Were tabs informed about short holds 5, ustner? Yes / No (P) 10. Were any analyzes received contaide of hold time? Yes / No (P) 11. Any Subcontracting needed? Yes (P) 12. Were VOAs received? Yes / No (P) 13. Are the samples properly preserved? (P) / No 14. Was there a need to contact Project Manage? Yes / No 15. Sample Contact Project Manage? Yes / No 16. Were about stable in squeous VOAs? Yes / No 17. 22482 Yes NA Yes / No 18. Was here a need to contact Project Manage? Yes / No 19. 2221483 Yes NA Yes / Aco <	Client	: <u>Coneco E</u>	ngineers, Sc	ientists & Sur	v - KPB/TB	_	ESS P	roject ID:	21J0814	
	Shipped/D	elivered Via		ESS Courier			Date R Project D	teceived:	10/22/2021	
1. Air bit menifest present? Xit bit menife	emppedie			200 00000		-	Days for	r Project:	5 Day	
2. Were cutody sells present? No 3. Is radiation count <100 CPM? Yes 4. Is a Cooler Present? Temp:	1. Air bill n Air No.	nanifest pres	ent? NA	[No]	6. Does COC n	natch bottles?		Yes
3. Is radiation count <100 CPM? Yes 4. Is a fooder Present? Temp:	2. Were cu	ustody seals	present?	[No]	7. Is COC com	plete and corre	ct?	Yes
4. Is a Cooler Present? Yes 14. Is a Cooler Present? Yes 5. Was COC signed and dated by clent? Yes 5. Was COC signed and dated by clent? Yes 11. Any Subcontracting needed? Yes 25. Was COC signed and dated by clent? Yes 11. Any Subcontracting needed? Yes 26. Was color solit completely: Yes 27. Anabysis: Does methanol cover solit completely? 28. Anabysis: Does methanol cover solit completely? 29. Does methanol cover solit completely? Yes / No 20. Was there a need to contact the clent? Date: 21. Was there a need to contact the clent? Date: 21. Was there a need to contact the clent? Date: 21. Was there a need to contact the clent? Date: 21. Was there a need to contact the clent? Date: 21. 21483 Yes NA 21. 21483 Yes Yes 3 221484 Yes Yes 3 221484 Yes Yes 4. Bartopic tables on contactional into storage/lab? Are tablecontal into storage/lab? 3 221484 Yes	3. Is radiat	tion count <1	00 CPM?]	Yes	1	8. Were sample	es received inta	act?	Yes
A. Is 2 double Present Form:		las Decomé?		ſ		1	9. Were labs ir	nformed about	t <u>short holds & rushes</u> ?	Yes / No (NA
5. Was COC signed and dated by dient? Yes 11. Any Subcontracting needed? Yes 25. Sample IDs:	4. Is a Coo Temp:	: 2.1	lced with:	lce	Yes	ļ	10. Were any a	analyses receiv	ved outside of hold time?	Yes / 😡
11. Any Subcontracting needed? Yes	5. Was CC	DC signed an	d dated by c	lient? [Yes]				
13. Are the samples properly preserved? Image: Container Proper Air Bubbles Sufficient Volume Time: By: By: By: By: By: Container Preservative Record pH (Cyanide and 608 Pesticides) 14. Was there a need to contact Project Manager? Yes / No 2. Was there a need to contact the client? Date: Time: By: By: Container Preservative Record pH (Cyanide and 608 Pesticides) 14. Was there a need to contact Project Manager? Yes / No 2. Was there a need to contact Project Manager? Yes / No 3. Are there a need to contact the client? Date: Time: By: Container Preservative Record pH (Cyanide and 608 Pesticides) 1 221482 Yes NiA Yes 4 oz. Jar NP 2 221483 Yes NiA Yes 4 oz. Jar NP 3 221484 Yes NiA Yes 4 oz. Jar NP 2 221484 Yes NiA Yes 4 oz. Jar NP 2 221484 Yes NiA Yes 4 oz. Jar NP 2 221484 Yes NiA Yes 4 oz. Jar NP 2 221484 Yes No / NA Yes / No / NA Yes / No / NA Are all Containers satached? Yes / No / NA Yes / No / NA Yes / No / NA Are all Container satached? Y	11. Any Su ESS	bcontracting Sample IDs: Analysis: TAT:	needed?	Yes	0	 - -	12. Were VOAs a. Air bubbles b. Does metha	s received? in aqueous VO nol cover soil (As? completely?	Yes / 😡 Yes / No Yes / No / NA
b. Low Level VOA viais trozen: Date:	13. Are the a. If metals	e samples pro	operly prese ipon receipt:	rved?	Ves / No Date:		Time:		Ву:	
Sample Receiving Notes: 14. Was there a need to contact Project Manager? Yes / No a. Was there a need to contact the client? Date: Yes / No Yes / No Who was contacted? Date: Time: By: Sample Container Proper Air Bubbles Sufficient Volume Container Type Record pH (Cyanide and 608 Pesticides) Pesticides) 1 221482 Yes N/A Yes 4 oz. Jar NP 2 221483 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 2nd Review Mere all containers scanned into storage/ab? Initials Yes / No / NA Are all Packford labels on correct containers? Yes / No / NA Yes / No / NA Are all Colditions statched? Yes / No / NA Yes / No / NA Are all Colditions statched? Yes / No / NA Yes / No / NA Are all Colditions attached? Yes / No / NA Yes / No / NA Are all Colditions statched? Yes / No / NA Yes / No / NA Are all Colditions attached? Yes / No / NA <td>b. Low Lev</td> <td>el VOA vials</td> <td>frozen:</td> <td></td> <td>Date:</td> <td></td> <td>Time:</td> <td></td> <td>Ву:</td> <td></td>	b. Low Lev	el VOA vials	frozen:		Date:		Time:		Ву:	
a. Was there a need to contact the client? Yes / No Date:	14. Was th	here a need to	o contact Pro	pject Manager	17	Yes / (No)				
Sample Number Container Proper Container Air Bubbles Present Sufficient Volume Container Type Preservative Record pH (Cyanide and 608 Pesticides) 1 221482 Yes N/A Yes 4 oz. Jar NP 2 221483 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Initials Yes / No / NA Are all QC stickers attached? Yes / No / NA Yes / No / NA Yes / No / NA Are all QC stickers attached? Yes / No / NA Yes / No / NA Yes / No / NA Are all QC stickers attached? Yes / No / NA Yes / No / NA Yes / No / NA Are all QC stickers attached? Yes / No / NA Yes / No / NA Yes / No / NA Are VQA stickers attached? Date & Time: Yes / No / NA Yes / No / NA By:	a. Was the Who was c	ere a need to ontacted?	contact the	client?	Date:	Yes / No	Time:		Ву:	
Number ID Container Present Volume Container Preservative Preservative 1 221482 Yes N/A Yes 4 oz. Jar NP 2 221483 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 2nd Review Were all containers scanned into storage/lab? Initials Value Ves / No Are all Flashpoint stickers attached/container ID # circled? Are all Flashpoint stickers attached? Yes / No / NA Are all QC stickers attached? Yes / No / NA Yes / No / NA Are VOA stickers attached? Yes / No / NA Are VOA stickers attached if bubbles noted? Date & Time: Date & Time: Completed By:	Sample	Container	Proper	Air Bubbles	Sufficient				Record pH (Cva	nide and 608
1 221482 Yes N/A Yes 4 oz. Jar NP 2 221483 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 2 221484 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 2 221484 Yes N/A Yes 4 oz. Jar NP 2 221484 Yes N/A Yes 4 oz. Jar NP 2 221484 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes Yes / No No Are all Containers scanned into storage/lab? Initials Yes / No / NA Yes / No / NA Are all QC stickers attached? Yes / No / NA Yes / No / NA Yes / No / NA Are VOA stickers attached if bubbles noted? Date & Time: Io2274 Io277	Number ID Container Present V		Volume	Contain	er Type	Preservativ	Pestici	des)		
2 221483 Yes N/A Yes 4 oz. Jar NP 3 221484 Yes N/A Yes 4 oz. Jar NP 2nd Review Were all containers scanned into storage/lab? Initials NP Are barcode labels on correct containers? Initials Ves / No Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA Are all QC stickers attached? Yes / No / NA Are all QC stickers attached? Yes / No / NA Are VOA stickers attached if bubbles noted? Date & Time: Iotzzba Completed By: Date & Time: Iotzzba Iotzzba	1	1 221482 Yes N/A Yes		4 oz	. Jar	NP				
3 221484 Yes N/A Yes 4 oz. Jar NP 2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached? By: Reviewed By: Reviewed By: Mutubace attached at time: Mutubace attached attached at time: Mutubace attached	2	221483	Yes	N/A	Yes	4 oz	. Jar	NP		
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA Are all Hex Chrome stickers attached? Yes / No / NA Are all QC stickers attached? Yes / No / NA Are all QC stickers attached? Yes / No / NA Are VOA stickers attached? By: By: Date & Time: Matheward By: Matheward Areward By: Matheward Matheward Are Work By: Matheward	3	221484	Yes	N/A	Yes	4 oz	. Jar	NP		
Completed By: Date & Time: 10/22/24 1627 Reviewed By: Image:	2nd Review Were all cc Are barcodd Are all Flas Are all Hex Are all QC s Are VOA st	v ontainers sc e labels on co hpoint sticker Chrome sticl stickers attac ickers attach	anned into a orrect contai rs attached/e kers attache hed? ed if bubbles	storage/lab? ners? container ID # d? s noted?	circled?	Initials	Yes / No Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA			
By: Auto Dave & Time: ICIZZICI	Completed By:	(211			Date & Time:	(A	22224	1627	
	Reviewed By:			- You	(marz	ate & Time:	101	2214	10231	

CHAIN OF CUSTODY								ESS Lab # 21 30 814 Page 1 of 1										1				
		Cransto	on, RI 02921	Turn Time (Days) □ > 5 ☑ 5 ☑ 4 □ 3 □ 2 □ 1 □ Same Day						ELECTRONIC DELIVERABLES (Final Reports are PDF)												
Phone: 401-461-7181				Regu	Regulatory State: RI Criteria: <0.5 mg/kg							□ Limit Checker □ State Forms □ EQuIS										
LIR	<u> 15</u>	Fax: 40	01-461-4486		Is this project for any of the following?:							Excel Hard Copy Enviro Data										
LADORAL	21	www.essla	iboratory.com		□CT RCP □MA MCP □RGP □Permit □401 WQ							$\Box \text{CLP-Like Package} \Box \text{Other (Specify)} \rightarrow$										
	CLIENT IN	FORMAT	NION		PROJECT INFORMATION								REQUESTED ANALYSES									
Client:	Coneco Engi	neers & Scier	ntists, Inc	Project Name: Pawtucket Control House Client													<u> </u>				7_1	
Address:	4 First Street			Project Location: 6 Thorton Street, Pawtucket, RI acknowle																	ota	
	Bridgewater,	Massachuset	tts 02324	Project Number: 5675.F.101.4 that sampling																	N	
Phone:	508-697-319	1		Project Manager: Katie Loftus is compliant with all EPA /																	mbe	
Email	dkeamey cma	cuch kloftus			Bill to:	Environment	al AP			State	80										rof	
Distribution	jaevazelis@co	neco.com	-		PO#: 5675.F.101.4 regulatory																Be	
					Quote#: programs																tles	
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sam	ple Matrix			Sample ID			PCB											
1	10/21/2021	0859	Grab	Pa	ミンナ			PS-254			X										1	
コ	10/21/2021	0903	Grab					PS-255			x										1	
3	10/21/2021	0911	Grab					PS-256			x										1	
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	i												\square			++				++	- ·	
Con	tainer Type:	AC-Ai	ir Cassette AG-Amb	er Glass	B-BOD Bot	ttle C-Cubitain	er J-Jar O	-Other P-Poly	/ S-Sterile	e V-Vial	AG			1								
Contai	iner Volume:	1-100	mL 2-2.5 gal 3-2	50 mL	4-300 mL 5-	-500 mL 6-1L	7-VOA 8-	2 oz 9-4 oz	10-8 oz	11-Other*	9			-	-						3	
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*											11											
Sampled by : DCK Chain needs to be												ut n	eatly	and	com	oletel	y for	on tii	me de	livery	•	
Labo	oratory Use O	nly	Comments:	* Pleas	* Please specify "Other" preservative and containers types in this space								All samples submitted are subject to									
Cooler Temp	erature (°C):	2.1	*National Grid Pro	ject*	ject* Preservation code 11 = ice Homogenize samples t extraction per EPA Method 3540 TSCA Requirements data nackage							ESS Laboratory's payment terms and							ρΠ			
	- ,,- , 	l'o	Use manual soxhle Please provide full	st extraç data na								conditions.						ah Filte	r			
Relinau	ished by (Sigr	ature)	Date	duid pu	Time	Received b	w (Signature) Relin	nauished	hy (Signature)			Date			Time	· ·	Recei	-	(Signat	2170)	
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					have Diss to Aug							10/22/21				16:03			NJH+ 1			
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Page 13 of 13


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810191

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 6:01 pm, Oct 12, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

SAMPLE RECEIPT

The following samples were received on October 04, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1810191-01	1009	Solid	8082A
1810191-02	1010	Solid	8082A
1810191-03	1013	Solid	8082A
1810191-04	1024	Solid	8082A
1810191-05	1026	Solid	8082A
1810191-06	2001	Solid	8082A
1810191-07	2003A	Solid	8082A
1810191-08	2004	Solid	8082A
1810191-09	2011	Solid	8082A
1810191-10	2012	Solid	8082A
1810191-11	2014	Solid	8082A
1810191-12	2015	Solid	8082A
1810191-13	2016	Solid	8082A
1810191-14	2018	Solid	8082A
1810191-15	2035	Solid	8082A
1810191-16	3015	Solid	8082A
1810191-17	4006	Solid	8082A
1810191-18	5001	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1810191-06	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (463% @ 30-150%), Decachlorobiphenyl [2C] (450% @ 30-150%)
1810191-07	Surrogate recovery(ies) diluted below the MRL (SD).
	Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene
	(% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)
1810191-08	Lower value is used due to matrix interferences (LC).
	Aroclor 1254
1810191-08	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1254

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters Semivolatile Organics Internal Standard Information Semivolatile Organics Surrogate Information Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1009 Date Sampled: 10/01/18 09:25 Percent Solids: N/A Initial Volume: 2.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-01 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1221	ND (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1232	ND (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1242	0.4 (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1248	ND (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1254 [2C]	1.9 (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1260	ND (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1262	ND (0.2)		8082A		1	10/10/18 22:37		CJ80913
Aroclor 1268	ND (0.2)		8082A		1	10/10/18 22:37		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>59 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150				
Surrogate: Tetrachloro-m-xylene		61 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1010 Date Sampled: 10/01/18 09:30 Percent Solids: N/A Initial Volume: 0.16 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-02 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1221	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1232	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1242	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1248	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1254 [2C]	13.9 (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1260	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1262	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
Aroclor 1268	ND (3.1)		8082A		1	10/10/18 22:56		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		72 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		83 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		104 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1013 Date Sampled: 10/01/18 10:05 Percent Solids: N/A Initial Volume: 1.55 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-03 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1221	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1232	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1242	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1248	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1254 [2C]	2.2 (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1260	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1262	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
Aroclor 1268	ND (0.3)		8082A		1	10/10/18 23:15		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		73 %		30-150				
Surrogate: Tetrachloro-m-xylene		73 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		90 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1024 Date Sampled: 10/01/18 10:32 Percent Solids: N/A Initial Volume: 2.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-04 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1221	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1232	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1242	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1248	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1254 [2C]	5.9 (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1260	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1262	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
Aroclor 1268	ND (0.2)		8082A		1	10/10/18 23:34		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		47 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		46 %		30-150				
Surrogate: Tetrachloro-m-xylene		68 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>79 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1026 Date Sampled: 10/01/18 10:38 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-05 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
Aroclor 1242	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
Aroclor 1254	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
Aroclor 1260 [2C]	5.1 (0.5)		8082A		5	10/12/18 3:08		CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/10/18 23:53		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		53 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		104 %		30-150				
Surrogate: Tetrachloro-m-xylene		62 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		69 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2001 Date Sampled: 10/01/18 11:30 Percent Solids: N/A Initial Volume: 3.58 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-06 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Seque	ence Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 0:12	CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 0:12	CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 0:12	CJ80913
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 0:12	CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 0:12	CJ80913
Aroclor 1254 [2C]	14.4 (0.7)		8082A		5	10/12/18 3:27	CJ80913
Aroclor 1260	5.5 (0.1)		8082A		1	10/11/18 0:12	CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 0:12	CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 0:12	CJ80913
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		463 %	SM	30-150			
Surrogate: Decachlorobiphenyl [2C]		450 %	SM	30-150			
Surrogate: Tetrachloro-m-xylene		61 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		85 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2003A Date Sampled: 10/01/18 11:43 Percent Solids: N/A Initial Volume: 5.17 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-07 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Se	equence Batch
Aroclor 1016	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1221	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1232	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1242	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1248	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1254	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1260 [2C]	42.3 (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1262	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
Aroclor 1268	ND (1.9)		8082A		20	10/12/18 3:47	CJ80913
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		%	SD	30-150			
Surrogate: Decachlorobiphenyl [2C]		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene		%	SD	30-150			
Surrogate: Tetrachloro-m-xylene [2C]		%	SD	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2004 Date Sampled: 10/01/18 11:50 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-08 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Sequ</u>	ence <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1254	LC, P 1.1 (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1260	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 0:51	CJ80913
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		45 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150			
Surrogate: Tetrachloro-m-xylene		75 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2011 Date Sampled: 10/01/18 12:30 Percent Solids: N/A Initial Volume: 2.24 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-09 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequer	ice Batch
Aroclor 1016	ND (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1221	ND (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1232	ND (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1242	ND (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1248	ND (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1254	1.0 (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1260 [2C]	1.2 (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1262	ND (0.2)		8082A		1	10/11/18 1:10	CJ80913
Aroclor 1268 [2C]	0.3 (0.2)		8082A		1	10/11/18 1:10	CJ80913
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		74 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150			
Surrogate: Tetrachloro-m-xylene		71 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2012 Date Sampled: 10/01/18 12:35 Percent Solids: N/A Initial Volume: 4.66 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-10 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/11/18 16:22

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1221	ND (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1232	ND (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1242	ND (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1248	ND (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1254	0.8 (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1260	0.7 (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1262	ND (0.1)		8082A		1	10/12/18 13:02		CJ81012
Aroclor 1268	ND (0.1)		8082A		1	10/12/18 13:02		CJ81012
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		31 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		30 %		30-150				
Surrogate: Tetrachloro-m-xylene		31 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		34 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2014 Date Sampled: 10/01/18 12:40 Percent Solids: N/A Initial Volume: 5.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-11 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1242	0.9 (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1254	1.3 (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1260	1.2 (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 1:48		CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 1:48		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		52 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		51 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2015 Date Sampled: 10/01/18 12:45 Percent Solids: N/A Initial Volume: 5.14 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-12 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1254	3.5 (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1260 [2C]	2.9 (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 4:21		CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 4:21		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		57 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		65 %		30-150				
Surrogate: Tetrachloro-m-xylene		45 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		54 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2016 Date Sampled: 10/01/18 12:50 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-13 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	<u>Results (MRL)</u>	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed Sequence	e <u>Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 4:40	CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 4:40	CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 4:40	CJ80913
Aroclor 1242	ND (0.1)		8082A		1	10/11/18 4:40	CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 4:40	CJ80913
Aroclor 1254	6.1 (0.5)		8082A		5	10/12/18 4:06	CJ80913
Aroclor 1260 [2C]	7.1 (0.5)		8082A		5	10/12/18 4:06	CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 4:40	CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 4:40	CJ80913
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		77 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150			
Surrogate: Tetrachloro-m-xylene		68 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		76 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2018 Date Sampled: 10/01/18 13:10 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-14 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequen	<u>ce Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1221	ND (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1232	ND (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1242	2.3 (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1248	ND (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1254 [2C]	3.7 (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1260	1.6 (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1262	ND (0.1)		8082A		1	10/11/18 4:59	CJ80913
Aroclor 1268	ND (0.1)		8082A		1	10/11/18 4:59	CJ80913
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		86 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		81 %		30-150			
Surrogate: Tetrachloro-m-xylene		85 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2035 Date Sampled: 10/02/18 11:18 Percent Solids: N/A Initial Volume: 2.75 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-15 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1221	ND (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1232	ND (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1242	1.0 (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1248	ND (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1254	5.7 (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1260	3.1 (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1262	ND (0.2)		8082A		1	10/11/18 5:18		CJ80913
Aroclor 1268	0.7 (0.2)		8082A		1	10/11/18 5:18		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>49 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		52 %		30-150				
Surrogate: Tetrachloro-m-xylene		56 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		58 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 3015 Date Sampled: 10/02/18 13:10 Percent Solids: N/A Initial Volume: 1.95 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-16 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed S	equence	Batch
Aroclor 1016	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1221	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1232	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1242	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1248	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1254	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1260 [2C]	9.0 (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1262	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
Aroclor 1268	ND (0.3)		8082A		1	10/11/18 5:37		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 4006 Date Sampled: 10/03/18 10:10 Percent Solids: N/A Initial Volume: 0.28 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-17 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:13

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1221	ND (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1232	ND (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1242	ND (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1248	ND (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1254 [2C]	5.6 (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1260	3.7 (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1262	ND (1.8)		8082A		1	10/11/18 5:56		CJ80913
Aroclor 1268	ND (1.8)		8082A		1	10/11/18 5:56		CJ80913
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		70 %		30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 5001 Date Sampled: 10/03/18 12:50 Percent Solids: N/A Initial Volume: 2.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810191 ESS Laboratory Sample ID: 1810191-18 Sample Matrix: Solid Units: mg/kg wet Analyst: CAD Prepared: 10/9/18 17:44

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> S	equence Batch
Aroclor 1016	ND (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1221	ND (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1232	ND (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1242	ND (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1248	ND (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1254 [2C]	1.5 (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1260	0.9 (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1262	ND (0.2)		8082A		1	10/11/18 6:15	CJ8091
Aroclor 1268	ND (0.2)		8082A		1	10/11/18 6:15	CJ8091
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		65 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		74 %		30-150			
Surrogate: Tetrachloro-m-xylene		79 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

Quality Control Data

Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Oualifier
	8082A Poly	chlorinated I	Biphenyls	(PCB)					
ND	0.02	mg/kg wot							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
ND	0.02	mg/kg wet							
0.0221		mg/kg wet	0.02500		88	30-150			
0.0233		mg/kg wet	0.02500		93	30-150			
0.0210		mg/kg wet	0.02500		84	30-150			
0.0250		mg/kg wet	0.02500		100	30-150			
0.5	0.02	mg/kg wet	0.5000		102	40-140			
0.5	0.02	mg/kg wet	0.5000		103	40-140			
0.5	0.02	mg/kg wet	0.5000		92	40-140			
0.5	0.02	mg/kg wet	0.5000		103	40-140			
0.0205			0.02500		02	20.150			
0.0205		mg/kg wet	0.02500		82	30-150			
0.0228		mg/kg wet	0.02500		91 00	30-150			
0.0210		mg/kg wet	0.02500		00	30-150			
0.0225		mg/kg wet	0.02500		90	30-150			
0.5	0.02	mg/kg wet	0.5000		107	40-140	5	30	
0.5	0.02	mg/kg wet	0.5000		107	40-140	4	30	
0.5	0.02	mg/kg wet	0.5000		98	40-140	6	30	
0.5	0.02	mg/kg wet	0.5000		108	40-140	4	30	
0.0221		mg/kg wet	0.02500		89	30-150			
0.0244		mg/kg wet	0.02500		98	30-150			
0.0226		mg/kg wet	0.02500		91	30-150			
0.0236		mg/kg wet	0.02500		94	30-150			
	Result ND ND	Result MRL 8082A Poly ND 0.02 ND 0	Result MRL Units 8082A Polychlorinated R ND 0.02 mg/kg wet ND 0.02 <td>Result MRL Units Spike Level 8082A Polychlorinated Biphenyls ND 0.02 mg/kg wet ND 0.02 mg/kg wet</td> <td>Result MRL Units Spike Level Source Result 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02</td> <td>Result MRL Units Spike Level Source Result 96/REC 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet sult MRL Units Level Result %REC WREC 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet <t< td=""><td>Result MRL Units Level Result %6REC Limits RPD 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet</td><td>Result MRL Units Level Result %REC Limits RPD Limit 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet NO NO</td></t<></td></td>	Result MRL Units Spike Level 8082A Polychlorinated Biphenyls ND 0.02 mg/kg wet ND 0.02 mg/kg wet	Result MRL Units Spike Level Source Result 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02	Result MRL Units Spike Level Source Result 96/REC 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet <td>Result MRL Units Level Result %REC WREC 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet <t< td=""><td>Result MRL Units Level Result %6REC Limits RPD 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet</td><td>Result MRL Units Level Result %REC Limits RPD Limit 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet NO NO</td></t<></td>	Result MRL Units Level Result %REC WREC 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet <t< td=""><td>Result MRL Units Level Result %6REC Limits RPD 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet</td><td>Result MRL Units Level Result %REC Limits RPD Limit 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet NO NO</td></t<>	Result MRL Units Level Result %6REC Limits RPD 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet ND 0.02 mg/kg wet	Result MRL Units Level Result %REC Limits RPD Limit 8082A Polychlorinated Biphenyls (PCB) ND 0.02 mg/kg wet NO NO



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Oualifier
· / -		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ80914 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0190		mg/kg wet	0.02500		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0232		mg/kg wet	0.02500		93	30-150			
LCS										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		88	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		85	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Surrogate: Decachlorobinhenvl	0.0202		mg/kg wet	0.02500		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0183		mg/kg wet	0.02500		73	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0192		mg/kg wet	0.02500		77	30-150			
Aroclor 1016	0.4	0.05	ma/ka wet	0.5000		89	40-140	0.6	30	
Aroclor 1016 [2C]	0.5	0.05	ma/ka wet	0.5000		92	40-140	2	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0 5000		81	40-140	5	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		89	40-140	0.8	30	
	n n1 78		ma/ka wet	0 02500		71	30-150			
Surrogate: DecachioroDiphenyl	0.0170 		mg/kg wet	0.02500		80	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0133 0.0187		mg/kg wet	0.02500		75	30-150			
Surroyate: Tetrachloro-m-xylene	n n104		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0194		mg/kg wet	0.02300		70	50-150			
Batch CJ81012 - 3540C										



The Microbiology Division of Thielsch Engineering, Inc.



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Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batti CJ01012 - 3340C										
Aroclor 1016	ND	0.02	ma/ka wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	ma/ka wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0259		mg/kg wet	0.02500		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0201		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0227		mg/kg wet	0.02500		91	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		96	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		99	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		95	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		97	40-140			
Surrogate: Decachlorobiphenyl	0.0254		mg/kg wet	0.02500		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0201		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0215		mg/kg wet	0.02500		86	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		92	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		95	40-140	4	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		94	40-140	2	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		95	40-140	2	30	
Surrogate: Decachlorobiphenyl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0201		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0214		mg/kg wet	0.02500		85	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

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Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

Analyte included in the analysis, but not detected SM Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM). Surrogate recovery(ies) diluted below the MRL (SD). Percent difference between primary and confirmation results exceeds 40% (P). Lower value is used due to matrix interferences (LC). Diluted. ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes dry Sample results reported on a dry weight basis RPD Relative Percent Difference MDL Method Detection Limit MRL Method Reporting Limit LOD Limit of Detection LOQ Limit of Quantitation Detection Limit DL Initial Volume F/V Final Volume Subcontracted analysis; see attached report Range result excludes concentrations of surrogates and/or internal standards eluting in that range. Range result excludes concentrations of target analytes eluting in that range. Range result excludes the concentration of the C9-C10 aromatic range. Avg Results reported as a mathematical average. NR No Recovery Calculated Analyte [CALC] SUB Subcontracted analysis; see attached report Reporting Limit EDL Estimated Detection Limit

Notes and Definitions



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810191

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID:1810191	
Shipped/Delivered Via: ESS Courier	Project Due Date: 10/12/2018 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.:NA	6. Does COC match bottles? Yes	
2. Were custody seals present? No	7. Is COC complete and correct? Yes	
3. Is radiation count <100 CPM? Yes	8. Were samples received intact? Yes	\square
4. Is a Cooler Present? Yes	9. Were labs informed about <u>short holds & rushes</u> ? Yes / No	NA)
Femp: <u>3.2</u> I ced with: <u>ice</u> Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time? Yes / No	
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely? Yes / No A	NO NA
13. Are the samples properly preserved? Yes V No a. If metals preserved upon receipt: Date: b. Low Level VOA vials frozen: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
	······································	
14. Was there a need to contact Project Manager? Yet / No a. Was there a need to contact the client? Yet / No Who was contacted? Date:	Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	274682	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	274681	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
03	274680	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
04	274679	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
05	274678	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
06	274677	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
07	274676	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
08	274675	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
09	274674	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
10	274673	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
11	274672	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
12	274671	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
13	274670	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
14	274669	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
15	274668	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
16	274667	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
17	274666	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
18	274665	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review

Are barcode labels on correct containers? Are all necessary stickers attached?



ESS Laboratory Sample and Cooler Receipt Checklist

Client:	Coneco Engineers, Scientists & Surv - KPB/TB/MM		ESS Project ID:	1810191
	7		Date Received:	10/4/2018
Completed By:	(M	Date & Time:	10/4/18 0	107
Reviewed By:		Date & Time:	6/4/18	al37
Delivered By:	1211		u/u/a	2137
Uy.				

ESS L	aboratory	/		C	HAIN OF CUSTOR	γ	ESS La	b #	181	019	$\overline{\mathcal{O}}$					
Division o	f Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush	Reporting Oc V			<u> </u>	t un a li	-					
185 Franc	es Avenue, Cr	anston RI 029	10	Regulatory State	Rhode Island	Limit	3		<u>י כי </u>		s mgii	5				
Tel. (401)	461-7181 Fa	x (401) 461-44	86	ls th	is project for any of the follow	Elector	Limit Checke	r Standard Excel								
www.essi	aboratory.com Cor	mnany Name		Project #	Project Na	Delivera		JOther (Please	e Specify -	-+)			PDF	- <u>-</u>		
Coneco Engineers and Scientists 5675.F					Pawtucket 1 Control House, 6 Thor											
	Co	ntact Person			Address		<u>s</u> .									
	City	Mark Zoller	e	lato	4 First Street	alys										
	Bridgewate	er	3	MA 02324		5675.F	A n									
1	Telephone Nu	mber	FAX N	Number Email Add		ess	1	8								
508-697-3191			jaevazalis, mzoller,kloftu	s@coneco.com		80										
ID	Date	Time	Sample Type	Sample Matrix	Sam	ple ID		l n n								
01	10/1/2019	0.25 AM	Grah	Solid							+ + -		+-+	+	+	┞──┼──┦
	10/1/2010	3.23 AIVI												\rightarrow	- <u> </u> '	
02	10/1/2018	9:30 AM	Grab	Solid	10	010		x								
03	10/1/2018	10:05 AM	Grab	Solid	10	013		x								
04	10/1/2018	10:32 AM	Grab	Solid	10)24		x								
05	10/1/2018	10:38 AM	Grab	Solid	10)26		x								
06	10/1/2018	11:30 AM	Grab	Solid	20	001		x								
07	10/1/2018	11:43 AM	Grab	Solid 2003A				x								
08	10/1/2018	11:50 AM	Grab	Solid 2004				x								
09	10/1/2018	12:30 PM	Grab	Solid 2011				x								
10	10/1/2018	12:35 PM	Grab	Solid	20)12		х								
Co	ntainer Type:	AC-Air Casset	te AG-Amber Glas	s B-BOD Bottle C	C-Cubitainer G - Glass O-Ot	her P-Poly S-Ster	rile V-Vial	AG								
Conta	iner Volume:	1-100 mL 2-	-2.5 gal 3-250 mL	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9								
Prese	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaOl	H 9-NH4CI 10-DI H2O	11-Other*	1								
			·		Number	of Containers per	Sample:	1								
		Laboratory	/ Use Only		Sampled by : KML											
Cooler Present:					Comments: Please specify "Other" preservative and containers types in this space											
Seals	s Intact:				National G	id Project Lise Man	ial covhiat (ovtractiv	n nor EBA	Mothod	2540 0	onort day	woight			
Cooler Te	emperature:	1.8+3.2	° ILE Z	<u>c</u>	National Grid Project, Use Manual soxniet extraction per EPA Method 3540, Report dry weight											
Relinquished by: (Signature, Date & Time) Received By:					Signature, Date & Time)	(Signature	Signature, Date & Time)			Received By: (Signature, Da					,	
1 A roly 18 . 20 DOA.				TINHE 1220 700 SUNJULIE EVEL						' m	<u>רט</u>					
Re	linquished by:	(Signature, Da	te & Time)	Received By: (Signature, Date & Time)	Relinquished Bv:	Signature	Date 8	Time)		Receive	d By: (Sid	nature.	Date &	Time	<u> </u>
											1	<u> </u>	1			<u> </u>

ESS L	aboratory	,		C	HAIN OF CUSTO	Y	ESS La	b#	18	10/	91					
Division of	Thielsch Engi	neering, Inc.		Turn Time	5-Day Rush	Report	ng	 0/	Be	Bs 1 a 5 malks						
185 France	es Avenue, Cr	anston RI 0291	0	Regulatory State	Rhode Island	Limit	5	1	,123							
Tel. (401)	461-7181 Fa:	x (401) 461-44	86	Is th	is project for any of the follow	Elector	nic [Limit Chec	ker	er Excel						
www.esslaboratory.com OCT RCP						Delivera	bles [/Other (Ple	ase Specify	e Specify →)						
	Coneco Enc	npany Name	entists	Project # 5675 F	Project Na Pawłucket 1 Control Housi											
	Cor	itact Person			Address											
	N	fark Zoller		4 First Street			- Indexe									
	City Bridgewate	r	S	tate MA	21p Code 02324	5675.F	Ans									
Т	elephone Nu	nber	FAX I	lumber	Email Addr	ess		82								
	508-697-319	91		jaevazalis, mzoller,k		ftus@coneco.com		88								
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	San	nple ID		BG							\perp	<u></u>
11	10/1/18	12:40 PM	Grab	Solid	2	.014		X						_	\perp	
12	10/1/18	12:45 PM	Grab	Solid	2	015		X								\perp
13	10/1/18	12:50 PM	Grab	Solid	2	2016		x								
14	10/1/18	1:10 PM	Grab	Solid	2	2018		х								
15	10/2/18	11:18AM	Grab	Solid	Solid 2035											
16	10/2/18	1:10 PM	Grab	Solid	Solid 3015											
17	10/3/18	10:10 AM	Grab	Solid	4006			х								
18	10/3/18	12:50 PM	Grab	Solid	Solid 5001											
										-	_		++		+	++
Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	Iss B-BOD Bottle	C-Cubitainer J-Jar O-Oti	her P-Poly S-Ste	erile V-Via	AG	++				++		+	+ +
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 ml	. 4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	: 9-4 oz 10-8 oz	11-Other	9								
Preser	vation Code:	1-Non Preserved	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-1	ileOH 7-Na2S2O3 8-ZnAce, NaO	H 9-NH4CI 10-DI H2C) 11-Other*	11								
					Numbe	er of Containers per	Sample:	1								
		Laborator	y Use Only		Sampled by : KML											
Cooler	Present:	\checkmark			Comments: Please specify "Other" preservative and containers types in this space											
Seals	s Intact:				National Grid Project, Use Ma	nual soxhlet extraction	on per EPA	Metho	d 3540, R	eport dry	weight					
Cooler Te	emperature:	.8+3.2	°CILER	,C							<u> </u>					
Relinquished by: (Signature, Date & Time) Received By: ((Signature, Date & Time) Relinquished By: (Signature, Date & Time) Redeived By: (Signa						(Signatı	ture, Date & Time)					
	10	10/	1418 1:200	R Cals	10/4/18 1330	h Cules	5 10/41	18	545	- (10/4	118 -	204)
Re	linquished by:	(Signature, Da	te & Time)	Received By:	: (Signature, Date & Time) Relinquished By: (Signature, Date & Time) Received By: (Signature, Date &							& Tin	ie)			
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1810434

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:03 pm, Oct 18, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810434

SAMPLE RECEIPT

The following samples were received on October 15, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 1810434-01

Sample Name 2003B **Matrix** Soil Analysis 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810434

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810434

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2003B Date Sampled: 10/01/18 11:45 Percent Solids: 98 Initial Volume: 2.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1810434 ESS Laboratory Sample ID: 1810434-01 Sample Matrix: Soil Units: mg/kg dry Analyst: CAD Prepared: 10/15/18 17:43

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	10/17/18 3:24		CJ81507
Aroclor 1221	ND (0.2)		8082A		1	10/17/18 3:24		CJ81507
Aroclor 1232	ND (0.2)		8082A		1	10/17/18 3:24		CJ81507
Aroclor 1242	3.0 (0.2)		8082A		1	10/17/18 3:24		CJ81507
Aroclor 1248	ND (0.2)		8082A		1	10/17/18 3:24		CJ81507
Aroclor 1254 [2C]	9.4 (0.2)		8082A		1	10/17/18 3:24		CJ81507
Aroclor 1260 [2C]	18.9 (1.2)		8082A		5	10/17/18 11:38		CJ81507
Aroclor 1262	ND (0.2)		8082A		1	10/17/18 3:24		CJ81507
Aroclor 1268	ND (0.2)		8082A		1	10/17/18 3:24		CJ81507
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		66 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810434

Quality Control Data

	D "		11.2	Spike	Source	0/ 550	%REC	000	RPD	0
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CJ81507 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0195		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0229		mg/kg wet	0.02500		92	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		105	40-140			
Aroclor 1016 [2C]	0.6	0.02	mg/kg wet	0.5000		113	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		104	40-140			
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		117	40-140			
Surrogate: Decachlorobiphenyl	0.0253		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0206		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0226		mg/kg wet	0.02500		90	30-150			
LCS Dup										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		103	40-140	2	30	
Aroclor 1016 [2C]	0.6	0.02	mg/kg wet	0.5000		111	40-140	2	30	
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		103	40-140	1	30	
Aroclor 1260 [2C]	0.6	0.02	mg/kg wet	0.5000		116	40-140	1	30	
Surrogate: Decachlorobiphenyl	0.0251		mg/kg wet	0.02500		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene	0.0199		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0221		mg/kg wet	0.02500		88	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810434

Notes and Definitions

U	Analyte included in the analysis, but not detected
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1810434

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB/MM	ESS Project ID: 1810434 Date Received: 10/15/2018	-
Shipped/Delivered Via: ESS Courier	Project Due Date: 10/18/2018 Days for Project: 3 Day	-
1. Air bill manifest present? No	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	
4. Is a Cooler Present? Yes Yes	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes No Yes No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: 	Time: By: Time: By:	
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes / No Yes / No Time: By:	
		· · · · · · · · · · · · · · · · · · ·
Sample Container Proper Air Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cy Pestic	ranide and 608 cides)
01 277821 Yes NA Yes	4 oz. Jar - Unpres NP	
2nd Review Are barcode labels on correct containers? Are all necessary stokers attached?	(Yes)No Yes / No	
Completed By:	Date & Time: 10/15/18 1) dd	
Reviewed By: Delivered	Date & Time:	
Ву		

Page 9 of 10

ESS L	aboratory	/		С		Y	ESS Lai	o #	K	510	3	Y							
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Tel. (401)	461-7181 Fa:	x (401) 461-44	86	Is this project for any of the following?: Electonic Limit Checker										1					
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 1811062

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:33 pm, Nov 09, 2018

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811062

SAMPLE RECEIPT

The following samples were received on November 02, 2018 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1811062-01	012	Soil	8082A
1811062-02	013	Soil	8082A
1811062-03	014	Soil	8082A
1811062-04	016	Soil	8082A
1811062-05	019	Soil	8082A
1811062-06	022	Soil	8082A
1811062-07	023	Soil	8082A
1811062-08	024	Soil	8082A
1811062-09	028	Soil	8082A
1811062-10	029	Soil	8082A
1811062-11	2003C	Soil	8082A
1811062-12	2012B	Soil	8082A
1811062-13	2016B	Soil	8082A
1811062-14	2016C	Soil	8082A
1811062-15	5009	Soil	8082A
1811062-16	5010	Soil	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811062

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1811062-03	<u>Surrogate recovery(ies) below lower control limit (S-).</u>
	Decachlorobiphenyl (23% @ 30-150%), Decachlorobiphenyl [2C] (24% @ 30-150%)
1811062-04	Surrogate recovery(ies) below lower control limit (S-).
	Tetrachloro-m-xylene (28% @ 30-150%)
1811062-08	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).
	Decachlorobiphenyl (19% @ 30-150%), Decachlorobiphenyl [2C] (20% @ 30-150%),
	Tetrachloro-m-xylene (26% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811062

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 04-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 012 Date Sampled: 10/30/18 09:45 Percent Solids: N/A Initial Volume: 2.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-01 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1221	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1232	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1242	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1248	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1254	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1260	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1262	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
Aroclor 1268	ND (0.2)		8082A		1	11/06/18 14:18		CK80511
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150				
Surrogate: Tetrachloro-m-xylene		76 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		81 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 013 Date Sampled: 10/30/18 10:12 Percent Solids: N/A Initial Volume: 0.6 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-02 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequenc	<u>e</u> <u>Batch</u>
Aroclor 1221	ND (0.8) ND (0.8)		8082A 8082A		1	11/06/18 14:37	CK80511 CK80511
Aroclor 1232	ND (0.8)		8082A		1	11/06/18 14:37	CK80511
Aroclor 1242	ND (0.8)		8082A		1	11/06/18 14:37	CK80511
Aroclor 1248	ND (0.8)		8082A		1	11/06/18 14:37	CK80511
Aroclor 1254	ND (0.8)		8082A		1	11/06/18 14:37	CK80511
Aroclor 1260	ND (0.8)		8082A		1	11/06/18 14:37	CK80511
Aroclor 1262	ND (0.8)		8082A		1	11/06/18 14:37	CK80511
Aroclor 1268	ND (0.8)		8082A		1	11/06/18 14:37	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		79 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150			
Surrogate: Tetrachloro-m-xylene		87 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 014 Date Sampled: 10/30/18 10:20 Percent Solids: N/A Initial Volume: 5.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-03 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed Sequen	<u>ce</u> <u>Batch</u>
Aroclor 1221	ND (0.1) ND (0.1)		8082A 8082A		1	11/06/18 14:56	CK80511 CK80511
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 14:56	CK80511
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 14:56	CK80511
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 14:56	CK80511
Aroclor 1254	ND (0.1)		8082A		1	11/06/18 14:56	CK80511
Aroclor 1260	ND (0.1)		8082A		1	11/06/18 14:56	CK80511
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 14:56	CK80511
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 14:56	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		23 %	<i>S</i> -	30-150			
Surrogate: Decachlorobiphenyl [2C]		24 %	<i>S</i> -	30-150			
Surrogate: Tetrachloro-m-xylene		35 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		40 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 016 Date Sampled: 10/30/18 10:28 Percent Solids: N/A Initial Volume: 2.19 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-04 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1016	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1221	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1232	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1242	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1248	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1254	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1260	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1262	ND (1.1)		8082A		5	11/06/18 15:16		CK80511
Aroclor 1268	1.2 (1.1)		8082A		5	11/06/18 15:16		CK80511
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		143 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		129 %		30-150				
Surrogate: Tetrachloro-m-xylene		28 %	<i>S</i> -	30-150				
Surrogate: Tetrachloro-m-xylene [2C]		31 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 019 Date Sampled: 10/30/18 10:45 Percent Solids: N/A Initial Volume: 0.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-05 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> <u>S</u>	equence Batch
Aroclor 1221	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
Aroclor 1232	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
Aroclor 1242	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
Aroclor 1248	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
Aroclor 1254	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
Aroclor 1260	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
Aroclor 1262	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
Aroclor 1268	ND (1.2)		8082A		1	11/06/18 15:35	CK8051
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		55 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		59 %		30-150			
Surrogate: Tetrachloro-m-xylene		75 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 022 Date Sampled: 10/30/18 11:00 Percent Solids: N/A Initial Volume: 1.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-06 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequen	<u>e Batch</u>
Aroclor 1016	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1221	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1232	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1242	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1248	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1254 [2C]	1.2 (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1260	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1262	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
Aroclor 1268	ND (0.5)		8082A		1	11/06/18 15:54	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		67 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150			
Surrogate: Tetrachloro-m-xylene		75 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		89 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 023 Date Sampled: 10/30/18 11:12 Percent Solids: N/A Initial Volume: 2.11 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-07 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequer	ice Batch
Aroclor 1016	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1221	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1232	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1242	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1248	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1254 [2C]	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1260 [2C]	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1262	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
Aroclor 1268	ND (0.2)		8082A		1	11/06/18 16:13	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		55 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		56 %		30-150			
Surrogate: Tetrachloro-m-xylene		59 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		66 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 024 Date Sampled: 10/30/18 11:22 Percent Solids: N/A Initial Volume: 2.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-08 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	<u>Analyzed</u> <u>Sequ</u>	ence <u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1221	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1232	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1242	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1248	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1254 [2C]	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1260	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1262	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
Aroclor 1268	ND (0.2)		8082A		1	11/06/18 16:32	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		19 %	SC	30-150			
Surrogate: Decachlorobiphenyl [2C]		20 %	SC	30-150			
Surrogate: Tetrachloro-m-xylene		26 %	SC	30-150			
Surrogate: Tetrachloro-m-xylene [2C]		30 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 028 Date Sampled: 10/30/18 12:35 Percent Solids: N/A Initial Volume: 2.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-09 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Se	quence <u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1221	ND (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1232	ND (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1242	ND (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1248	ND (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1254 [2C]	1.3 (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1260 [2C]	0.9 (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1262	ND (0.2)		8082A		1	11/06/18 16:51	CK80511
Aroclor 1268	ND (0.2)		8082A		1	11/06/18 16:51	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		<i>49 %</i>		30-150			
Surrogate: Decachlorobiphenyl [2C]		49 %		30-150			
Surrogate: Tetrachloro-m-xylene		56 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		65 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 029 Date Sampled: 10/30/18 12:15 Percent Solids: N/A Initial Volume: 2 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-10 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1221	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1232	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1242	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1248	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1254 [2C]	0.3 (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1260	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1262	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
Aroclor 1268	ND (0.2)		8082A		1	11/06/18 17:11	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		64 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150			
Surrogate: Tetrachloro-m-xylene		71 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2003C Date Sampled: 10/30/18 12:30 Percent Solids: N/A Initial Volume: 5.18 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-11 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed Seque	ence Batch
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 17:30	CK80511
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 17:30	CK80511
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 17:30	CK80511
Aroclor 1242	ND (0.1)		8082A		1	11/06/18 17:30	CK80511
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 17:30	CK80511
Aroclor 1254 [2C]	6.1 (0.5)		8082A		5	11/07/18 12:36	CK80511
Aroclor 1260 [2C]	10.3 (0.5)		8082A		5	11/07/18 12:36	CK80511
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 17:30	CK80511
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 17:30	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		62 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		67 %		30-150			
Surrogate: Tetrachloro-m-xylene		67 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		78 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2012B Date Sampled: 10/30/18 12:33 Percent Solids: N/A Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-12 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> <u>Sequen</u>	<u>ce</u> <u>Batch</u> CK80511
Aroclor 1221	ND (0.1)		8082A		1	11/07/18 12:54	CK80511
Aroclor 1232	ND (0.1)		8082A		1	11/07/18 12:54	CK80511
Aroclor 1242 [2C]	0.7 (0.1)		8082A		1	11/07/18 12:54	CK80511
Aroclor 1248	ND (0.1)		8082A		1	11/07/18 12:54	CK80511
Aroclor 1254 [2C]	1.1 (0.1)		8082A		1	11/07/18 12:54	CK80511
Aroclor 1260	0.9 (0.1)		8082A		1	11/07/18 12:54	CK80511
Aroclor 1262	ND (0.1)		8082A		1	11/07/18 12:54	CK80511
Aroclor 1268 [2C]	0.2 (0.1)		8082A		1	11/07/18 12:54	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		54 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150			
Surrogate: Tetrachloro-m-xylene		55 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		62 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2016B Date Sampled: 10/30/18 12:36 Percent Solids: N/A Initial Volume: 5.06 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-13 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed Sequence	<u>e Batch</u>
Aroclor 1016	ND (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1221	ND (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1232	ND (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1242	0.9 (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1248	ND (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1254	3.6 (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1260 [2C]	3.1 (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1262	ND (0.1)		8082A		1	11/06/18 18:08	CK80511
Aroclor 1268	ND (0.1)		8082A		1	11/06/18 18:08	CK80511
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		54 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		54 %		30-150			
Surrogate: Tetrachloro-m-xylene		62 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		68 %		30-150			



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2016C Date Sampled: 10/30/18 12:39 Percent Solids: N/A Initial Volume: 5 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-14 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (0.1)		8082A		1	11/07/18 13:13		CK80511
Aroclor 1221	ND (0.1)		8082A		1	11/07/18 13:13		CK80511
Aroclor 1232	ND (0.1)		8082A		1	11/07/18 13:13		CK80511
Aroclor 1242	7.8 (0.5)		8082A		5	11/07/18 17:21		CK80511
Aroclor 1248	ND (0.1)		8082A		1	11/07/18 13:13		CK80511
Aroclor 1254 [2C]	8.4 (0.5)		8082A		5	11/07/18 17:21		CK80511
Aroclor 1260 [2C]	5.6 (0.5)		8082A		5	11/07/18 17:21		CK80511
Aroclor 1262	ND (0.1)		8082A		1	11/07/18 13:13		CK80511
Aroclor 1268	1.0 (0.1)		8082A		1	11/07/18 13:13		CK80511
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		84 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		80 %		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 5009 Date Sampled: 10/30/18 14:30 Percent Solids: N/A Initial Volume: 1.47 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-15 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.3)		8082A		1	11/07/18 13:32	. <u></u>	CK80511
Aroclor 1221	ND (0.3)		8082A		1	11/07/18 13:32		CK80511
Aroclor 1232	ND (0.3)		8082A		1	11/07/18 13:32		CK80511
Aroclor 1242	ND (0.3)		8082A		1	11/07/18 13:32		CK80511
Aroclor 1248	ND (0.3)		8082A		1	11/07/18 13:32		CK80511
Aroclor 1254	ND (0.3)		8082A		1	11/07/18 13:32		CK80511
Aroclor 1260	0.7 (0.3)		8082A		1	11/07/18 13:32		CK80511
Aroclor 1262	ND (0.3)		8082A		1	11/07/18 13:32		CK80511
Aroclor 1268 [2C]	0.7 (0.3)		8082A		1	11/07/18 13:32		CK80511
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		117 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		129 %		30-150				
Surrogate: Tetrachloro-m-xylene		39 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		44 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 5010 Date Sampled: 10/30/18 14:45 Percent Solids: N/A Initial Volume: 0.07 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 1811062 ESS Laboratory Sample ID: 1811062-16 Sample Matrix: Soil Units: mg/kg wet Analyst: CAD Prepared: 11/5/18 16:01

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	<u>Sequence</u>	Batch
Aroclor 1016	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1221	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1232	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1242	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1248	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1254	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1260	11.8 (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1262	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
Aroclor 1268	ND (7.1)		8082A		1	11/06/18 21:00		CK80511
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		84 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		107 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811062

Quality Control Data

				Spike	Source		%REC	000	RPD	0.115
Anaiyte Re	suit M	IKL	Units	Level	Kesult	%REC	Limits	KPD	Limit	Qualifier
	8082	A Polychlo	prinated Bip	henyls (PCB)					
Batch CK80511 - 3540C										
Blank										
Aroclor 1016	ID 0	0.02	mg/kg wet							
Aroclor 1016 [2C]		0.02	mg/kg wet							
Aroclor 1221		0.02	mg/kg wet							
Aroclor 1221 [2C]	ID 0	0.02	mg/kg wet							
Aroclor 1232	ID 0	0.02	mg/kg wet							
Aroclor 1232 [2C]	ID 0	0.02	mg/kg wet							
Aroclor 1242	ID O	0.02	mg/kg wet							
Aroclor 1242 [2C]	ID O	0.02	mg/kg wet							
Aroclor 1248	ID 0	0.02	mg/kg wet							
Aroclor 1248 [2C]	ID 0	0.02	mg/kg wet							
Aroclor 1254	ID 0	0.02	mg/kg wet							
Aroclor 1254 [2C]	ID 0	0.02	mg/kg wet							
Aroclor 1260	ID 0	0.02	mg/kg wet							
Aroclor 1260 [2C]	ID 0	0.02	mg/kg wet							
Aroclor 1262	ID 0	0.02	mg/kg wet							
Aroclor 1262 [2C]	ID 0	0.02	mg/kg wet							
Aroclor 1268	ID O	0.02	mg/kg wet							
Aroclor 1268 [2C]	ID O	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl 0.0	0252		mg/kg wet	0.02500		101	30-150			
Surrogate: Decachlorobiphenyl [2C] 0.0	0231		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene 0.0	0197		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0	0217		mg/kg wet	0.02500		87	30-150			
LCS										
Aroclor 1016	.5 0	0.05	mg/kg wet	0.5000		99	40-140			
Aroclor 1016 [2C]	.5 0	0.05	mg/kg wet	0.5000		97	40-140			
Aroclor 1260 0	.5 0	0.05	mg/kg wet	0.5000		100	40-140			
Aroclor 1260 [2C]	.5 0	0.05	mg/kg wet	0.5000		92	40-140			
Surrogate: Decachlorobiphenyl 0.0	0242		mg/kg wet	0.02500		97	30-150			
Surrogate: Decachlorobiphenyl [2C] 0.0	0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Tetrachloro-m-xylene 0.0	0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0	1208		mg/kg wet	0.02500		83	30-150			
LCS Dup										
Aroclor 1016	.5 0).05	mg/kg wet	0.5000		99	40-140	0.04	30	
Aroclor 1016 [2C]	.5 0	0.05	mg/kg wet	0.5000		98	40-140	0.8	30	
Aroclor 1260	.5 0	0.05	mg/kg wet	0.5000		102	40-140	1	30	
Aroclor 1260 [2C]	.5 0	0.05	mg/kg wet	0.5000		93	40-140	1	30	
Surrogate: Decachlorobiphenyl 0.1	1243		mg/kg wet	0.02500		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	1221		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-xylene 0.0	0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.0	1207		mg/kg wet	0.02500		83	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811062

Notes and Definitions

U	Analyte included in the analysis, but not detected
SC	Surrogate recovery(ies) outside of criteria. Reextraction/Reanalysis confirms results (SC).
S-	Surrogate recovery(ies) below lower control limit (S-).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
[/V	Initial Volume
F/ V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit

EDL Estimated Detection Limit



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 1811062

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories.pdf/OutofStateCommercialLaboratories.pdf

> Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> > Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers</u> , Scientists & Surv - KPB/TB/MM	ESS Project ID:	
	Date Received: 11/2/2019	
Shipped/Delivered Via:ESS Courier	Project Due Date: 11/9/2018	
	Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes Temp: 3.5 Iced with: Ice	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No NA
5. Was COC signed and dated by client? Yes	10. Were any analyses received outside of hold time?	Yes / No
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely? Time: By: Time: By:	Yes / No Yes / No Yes / No / NA
14. Was there a need to contact Project Manager? Yes No a. Was there a need to contact the client? Yes No Who was contacted? Date:	By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	285718	Yes	NA	Yes	4 oz. Jar - Unpres	NP	
02	285717	Yes	NA	Yes	4 oz dar - Linores		
03	285716	Yes	NA	Yes	4 07 Jar - Linnres		
04	285715	Yes	NA	Yes	4 oz. Jar - Unnres	NP ND	
05	285714	Yes	NA	Yes	4 oz. Jar - Unpres		
06	285713	Yes	NA	Yes	4 oz . lar - Linnres	NP	
07	285712	Yes	NA	Yes	4 oz lar Linnes	NP ND	
08	285711	Yes	NA	Yes	4 07 Jar - Unpres	NP	
09	285710	Yes	NA	Yes	4 oz Jar - Uppros	NP	
10	285709	Yes	NA	Yes	4 oz jar Uppros	NP	
11	285708	Yes	NA	Yes	4 oz. Jar Unntes	NP	
12	285707	Yes	NA	Yes	4 02. Jar - Unpres	NP	
13	285706	Yes	NA	Vec	4 02. Jat - Unpres	NP	
14	285705	Yes	NA	Vee	4 02. Jar - Unpres	NP	
15	285704	Yes	NA	Voe	4 oz. Jar - Unpres	NP	
16	285703	Yes	NA	Von	4 oz. Jar - Unpres	NP	
			110	163	4 oz. Jar - Unpres	NP	

2nd Review Are barcode labels on correct containers? Are all necessary stickers/atteoned?	Yes / No Yes / No
By:	_ Date & Time: / /- 2 - 1 & /9:23

Completed By:

ESS Laboratory Sample and Cooler Receipt Checklist



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ECOL	aboratory			С	HAIN OF CUSTOD	Y	ESS Lak) #	181	106	,2							
200 Li	anoratory	anning too	ſ	Turn Time 5-Day Rush				ng	-6-7-	<u>, - u</u>		PCPs	< 0.5 m	na/ka				
Division of	I hielsch Engli	neering, Inc.	n	Regulatory State Rhode Island				·				- CBS	 	.9.1.9				
Tel (404)	-5 Avenue, Cra 161-7181 Eev	(401) 461-448	16	Is this project for any of the following?:			Electon	nic	Limit C	hecker			[]Stanc	lard Excel	סתר			
I CI. (401) 4 MMM Accia	boratory.com	< , , , , , , , , , , , , , , , , , , , , , , , ,		OCT RCP		RGP	Deliveral	bles	Ulther (Please S	pecify →)) 		ן דרייך ייי	-ur T	- 1 -		
www.cabid	Con	npany Name		Project #	Project Na	me mon Ave. Boutucket Bl												
Coneco Engineers and Scientists				5675.F	5675.F Pawtucket 1 Control House, 6 Thornton Ave, Pawtucket RI													
Contact Person Mark Zoller									Ĩ									
City S				State Zip Code PO #			Ana				1							
	Bridgewate	r		MA 02324 5675.F				82										
Г	elephone Nut 508-697-310	mper	FAX		jaevazalis, mzoller,kloftu	us@coneco.com		s 80										
ESS Lab	Collection	Collection	Sample Type	Sample Matrix	San	nple ID		PCB					++					
01	10/30/18	9:45 am	Grab	Solid		012		X				<u> </u>		_			+ $+$	
02	10/30/18	10:12 am	Grab	Solid		013		X					+ +		_ _	_	<u> </u>	
03	10/30/18	10:20 am	Grab	Solid		014		X		+		\downarrow \downarrow					╉╌╊	
04	10/30/18	10:28 am	Grab	Solid		016		X		+		┢.┝			_+		┦ ┞	
05	10/30/18	10:45 am	Grab	Solid		019		×			_	+			_	_ _		
06	10/30/18	11:00 am	Grab	Solid			×		++		++		_			┿┝	_	
07	10/30/18	11:12 am	Grab	Solid			X	└─┤──	+		++				+	+ +		
08	10/30/18	11:22 am	Grab	Solid		024		X	┝╌┢╴	+		┽┼					┽┼	
09	10/30/18	12:35 pm	Grab	Solid		028		X	┟╼╉─	+				_			╉	_
10	10/30/18	12:15 pm	Grab	Solid		029				┿╊	_ _	╉╌╋╴	╶╆╾╂				┥╋	
Cu	ontainer Type:	AC-Air Casse	tte AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer G - Glass O-4	Uther P-Poly S-St	11 Othor		┟╺╁─	┿┼	<u> -</u>	┽╶┿╴	-++		┝╌╴┠╸		╶┧╶╺╋	
Cont	ainer Volume:	: 1-100 mL 2	2-2.5 gal 3-250 m	L 4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 0	2 9-4 0Z 10-8 0Z	0 11-0ther*		┼╌┽─	╶╆═╌╀	-+-	┥─╄╸	╶┼━┼		-		+	
Prese	rvation Code:	1-Non Preserve	d 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-N	tethanol 7-Na2S2O3 8-ZnAce, Na	er of Containers ne	- Sample	$+_{1}^{+}$	┝──┼──	+ $+$		┼━┼	++				┤─┤	_
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	_ .	Laborator	ry use only		Commente:	Please s	pecify "Oth	er" p	reserva	tive an	d cont	ainers ty	ypes in t	this spa	ce			
Coole	er Present:		-		Comments.				antice -		Maiha	4 3540	Report F	Dry Mein	sht			
Sea	ls Intact:				National	Grid Project, Use Ma	nual Soxnie	et EXt	action p		VINGUIO	1	Toporri	.,				
Cooler 7	emperature:	3,5	°C I CE I	(Signature Date & Time)	Received By: (Signature Date & Time) Received By: (Signature, Date						e & Ti	me)						
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ESS Laboratory						•	Reporting								
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Tel. (401) 461-7181 Fax (401) 461-4486				OCT RCP (MAMCP ORGP				Deliverables ↓ Other (Please Specify →)							
www.esslaboratory.com					Project Name									1	
	Coneco Eng	ineers and Scie	entists	5675.F	Pawtucket 1 Control House,										
	Con	tact Person			Address		ysis								
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.	508-697-319	91			jaevazalis, mzoller, kionus			BS							
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Samı	ole ID		D D D		╉╌┨╌		+ +		┼─┼╴	
11	10/30/18	12:30 pm	Grab	Solid	200)3C		X -		++	╉╌╁╴	+ $-$		╉╼╀╸	┥╉
12	10/30/18	12:33 pm	Grab	Solid	20^	12B					┽┾	┼┼	┼─┼─	╁╼╂╴	┥╋
13	10/30/18	12:36 pm	Grab	Solid	20	16B			┢				┢╴┞╾	┼╾┼╾	
14	10/30/18	12:39 pm	Grab	Solid	20	16C			┼╌┞╴		╶┼┈┽╺	┥┽	┼┼	╀╾╁╸	
15	10/31/18	2:30 pm	Grab	Solid	50			┤─┤─			┥┽	┼┢	┼╾┼╸		
16	10/31/18	2:45 pm	Grab	Solid	50			╉╋	┢┝				╉╼╁		
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C	ontainer Type	: AC-Air Casse	tte AG-Amber Gl	ass B-BOD Bottle	C-Cubitainer J-Jar O-Otr	0.4 cz 10.8 cz		* a	╶┽╶╇	+ +	+ +				
Cont	ainer Volume	: 1-100 mL 2	2-2.5 gal 3-250 m	L 4-300 mL 5-50	0 mL 6-1L 7-VOA 8-2 0Z	9-4 0Z 10-8 0Z			┽┽	+ +	╶╄╶╄				
Prese	ervation Code	: 1-Non Preserve	ed 2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-	MeOH 7-Na2S2O3 8-ZnAce, NaU		r Sample:	+-++-							
					Numbe	r or containers pe	Janpie	<u> </u>	_ 1 4		_1_1_				
1		Laborato	ry Use Only				pecify "Oth	er" pre	servative	and cor	tainers t	ypes in th	is space		
Coole	er Present:	\checkmark			Comments:	F lease a	poong ou								
Seals Intact:				National Grid Project, Use Manual Soxhlet Extraction per EPA Method 3540, Report Dry Weight											
Cooler ⁻	Femperature:	<u>3.5</u>	OICEI			Polinquished	By: (Signatu	e Date	& Time)		Receiv	ed By: (Sig	nature, I	Date & T	Time)
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F.101.004) ESS Laboratory Work Order Number: 2110141

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 4:23 pm, Sep 13, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0141

SAMPLE RECEIPT

The following samples were received on September 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 2110141-01 2110141-02 Sample Name 5010A 5010B **Matrix** Solid Solid **Analysis** 8082A 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0141

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0141

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 5010A Date Sampled: 09/01/21 13:31 Percent Solids: N/A Initial Volume: 0.7 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110141 ESS Laboratory Sample ID: 2110141-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.7)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 1:11	Sequence D1I0072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
Aroclor 1232	ND (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
Aroclor 1242	ND (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
Aroclor 1248	ND (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
Aroclor 1254	4.0 (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
Aroclor 1260	ND (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
Aroclor 1262	3.9 (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
Aroclor 1268	ND (0.7)		8082A		1	09/11/21 1:11	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		74 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		75 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 5010B Date Sampled: 09/01/21 13:39 Percent Solids: N/A Initial Volume: 0.76 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110141 ESS Laboratory Sample ID: 2110141-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.7)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 1:30	Sequence D1I0072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
Aroclor 1232	ND (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
Aroclor 1242	ND (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
Aroclor 1248	ND (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
Aroclor 1254 [2C]	4.1 (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
Aroclor 1260	ND (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
Aroclor 1262	2.9 (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
Aroclor 1268	ND (0.7)		8082A		1	09/11/21 1:30	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		76 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		78 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0141

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DI10707 - 3540C										
Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0232		mg/kg wet	0.02500		93	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		95	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		97	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		94	40-140			
Surrogate: Decachlorobiobenyl	0.0236		mg/kg wet	0.02500		94	30-150			
Surrogate: Decachlorobiphenyl [20]	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Detachloro-m-vulene	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogate. Tetrachloro-m-vulene	0.0235		mg/kg wet	0.02500		94	30-150			
Aroclor 1016	0.4	0.05	ma/ka wet	0.5000		85	40-140	11	30	
Aroclor 1016 [2C]	0.4	0.05	ma/ka wet	0.5000		83	40-140	9	30	
Aroclor 1260	0.4	0.05	ma/ka wet	0.5000		88	40-140	10	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	9	30	
			5,5					-		
Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0207		mg/kg wet	0.02500		83	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0141

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	
I/ V E/V	
Γ/ V	
8	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3 Лис	Range result excludes the concentration of the C9-C10 aromatic range.
NP	Results reported as a mathematical average.
	Calculated Analyte
DI DI	Subcontracted analysis; see attached report
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0141

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists	& Surv - KPB/TB	ESS Proje	ect ID:	2110141	
Shipped/Delivered Via: ESS (Courier	Date Rec Project Due	eived:	9/3/2021	
		Days for P	roject:	5 Day	
1. Air bill manifest present? Air No.: NA	No	6. Does COC mat	ch bottles?		Yes
2. Were custody seals present?	No	7. Is COC comple	te and correct?		Yes
3. Is radiation count <100 CPM?	Yes	8. Were samples	received intact?	•	Yes
4. Is a Cooler Present?	Yes	9. Were labs info	rmed about <u>sh</u>	ort holds & rushes?	Yes / No/ NA
Temp: 4.1 Iced with: Ic	e	10. Were any ana	alyses received	outside of hold time?	Yes / No
5. Was COC signed and dated by client?	Yes				
11. Any Subcontracting needed? ESS Sample IDs: Analysis: TAT:	Yes / No	12. Were VOAs re a. Air bubbles in a b. Does methano	aceived? aqueous VOAs I cover soil com	? pletely?	Yes (No Yes / No Yes / No / NA
13. Are the samples properly preserved?a. If metals preserved upon receipt:b. Low Level VOA vials frozen:	Yes / No Date: Date:	Time: Time:	······································	By: By:	
Sample Receiving Notes:					
14. Was there a need to contact Project Ma a. Was there a need to contact the client? Who was contacted?	anager? Yes /(N Yes / N Date:	lo o Time:		Ву:	
Sample Container Proper Air Bul Number ID Container Pres	bbles Sufficient Conta ent Volume Conta	ainer Type	Preservative	Record pH (Cya Pestici	inide and 608 des)
1 204220 Yes N/	A Yes 8	i oz jar	NP		
2 204221 Yes N/	A Yes 8	oz jar	NP		
2nd Review Were all containers scanned into storage Are barcode labels on correct containers? Are all Flashpoint stickers attached/container Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Viab? Initials	Yes / No Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA			
Completed	Date & Tim	()-3	-21	18.44	
Reviewed By:	Date & Tim	ne:	21	1902	

ESS L	_aborator	у		C	DY	ESS Lab # LILO141									
Division o	of Thielsch Eng	; gineering, Inc.		Turn Time	5-Day Rush		Report	ing		<u> </u>					
185 Franc	ces Avenue, C	ranston RI 029	10	Regulatory State	Rhode Island		Limits				<0.5 mg/kg				
Tel. (401)	461-7181 Fa	ax (401) 461-44	86	ls th	is project for any of the follo	wing?:	Electonic 🗀 Limit Checker					Standard Excel			
www.essl	aboratory.com	<u> </u> N				RGP	Deliverables ☐ Other (Please Specify →) PDF						······································		
	Coneco E	ngineers & Scie	entists	5675.F.101.004	Project Na Pawtucket Control House, 6 Tho								1	,	
	Co	ntact Person			Address	- și									
	City	Mark Zoller	1 3	tato	4 First Street	PO #	alys								
	Bridgewate	er	Massa	chusetts	02324	5675.F.101.004	82 Au								
	Telephone Nu	Imber	FAX	Number	Email Add	ress	1	y 8(· ·		
ESSIA	(508) 697-3	191 Collection		1	Jaevaelis, Mzoller, Kloftus, cir		- s								
ID	Date	Time	Sample Type	Sample Matrix	Sar		l 🖸								
01	9/1/21	1:31 pm	Grab	Solid	5	010A		x							
02	9/1/21	1:39 pm	Grab	Solid	5	010B		X							
								X							
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Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	ss B-BOD Bottle (C-Cubitainer G - Glass O-O	ther P-Poly S-Ster	ile V-Vial	AG							
Conta	ainer Volume:	: 1-100 mL 2	-2.5 gal 3-250 m	4-300 mL 5-500	mL 6-1L 7-VOA 8-2 oz	. 9-4 oz 10-8 oz	11-Other*	10							
Prese	rvation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanoi 7-Na2S2O3 8-ZnAce, Na(OH 9-NH4CI 10-DI H2O) 11-Other*	11							
					Numbe	er of Containers per S	Sample:	1							
1		Laboratory	y Use Only		Sampled by : KML										
Coole	r Present:	405			Comments:	Please spe	cify "Othe	r" pre	servati	ve and co	ntainers	types in t	his space		
Seal	ls Intact:				National Grid Project, Use Ma	anual Soxhlet Extraction	on per EPA	\ Meth	od 3540), Report [Dry Weigh	it, 11=ice			
Cooler T	emperature:	4.1	°⊂1œ	TSCA Requirements, Provide Full Data Package											
Re	elinquished by:	: (Signature, Da	te & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	e, Date	e & Time)	Receiv	ed By: (Si	ignature, D	ate & T	ime)
1	R			to les	913/21 12:28	to land	9/3/2	; K	:41		h	2	- 9°3	16:4	()
Re	elinquished by:	(Signature, Da	te & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	, Date	& Time)	Receiv	ed By: (Si	ignature, D	ate & T	ime)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F.101.004) ESS Laboratory Work Order Number: 2110142

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 4:52 pm, Sep 13, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0142

SAMPLE RECEIPT

The following samples were received on September 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21I0142-01	1026B	Solid	8082A
2110142-02	2004A	Solid	8082A
2110142-03	2004B	Solid	8082A
2110142-04	2011A	Solid	8082A
2110142-05	2011B	Solid	8082A
2110142-06	2018A	Solid	8082A
2110142-07	2018B	Solid	8082A
2110142-08	2035B	Solid	8082A
2110142-09	5009A	Solid	8082A
21I0142-10	5009B	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0142

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

21I0142-02	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1254 [2C]
2110142-08	Lower value is used due to matrix interferences (LC).
	Aroclor 1248 [2C]
2110142-08	Percent difference between primary and confirmation results exceeds 40% (P).
	Aroclor 1248 [2C]
2110142-09	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (971% @ 30-150%), Decachlorobiphenyl [2C] (752% @ 30-150%)
2110142-10	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
	Decachlorobiphenyl (385% @ 30-150%), Decachlorobiphenyl [2C] (325% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters Semivolatile Organics Internal Standard Information Semivolatile Organics Surrogate Information Volatile Organics Internal Standard Information Volatile Organics Surrogate Information EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 2110142

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1026B Date Sampled: 09/01/21 12:35 Percent Solids: N/A Initial Volume: 1.99 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 09/11/21 1:49	Sequence	<u>Batch</u> D110707
Aroclor 1221	ND (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
Aroclor 1232	ND (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
Aroclor 1242	ND (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
Aroclor 1248	ND (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
Aroclor 1254	2.9 (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
Aroclor 1260	6.9 (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
Aroclor 1262	ND (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
Aroclor 1268	ND (0.3)		8082A		1	09/11/21 1:49	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		65 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		66 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		88 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2004A Date Sampled: 09/01/21 12:47 Percent Solids: N/A Initial Volume: 1.99 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.3)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 2:08	Sequence D110072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
Aroclor 1232	ND (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
Aroclor 1242	ND (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
Aroclor 1248	ND (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
Aroclor 1254 [2C]	P 3.3 (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
Aroclor 1260	0.6 (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
Aroclor 1262	ND (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
Aroclor 1268	ND (0.3)		8082A		1	09/11/21 2:08	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>65 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		60 %		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2004B Date Sampled: 09/01/21 12:49 Percent Solids: N/A Initial Volume: 2.09 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	09/11/21 2:28	D110072	DI10707
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
Aroclor 1242 [2C]	2.0 (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
Aroclor 1248	ND (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
Aroclor 1254	2.2 (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
Aroclor 1260	0.8 (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
Aroclor 1262	ND (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 2:28	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		55 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		53 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		82 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2011A Date Sampled: 09/01/21 12:58 Percent Solids: N/A Initial Volume: 2.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.2)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 2:47	Sequence D110072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
Aroclor 1242	ND (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
Aroclor 1248	ND (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
Aroclor 1254	0.8 (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
Aroclor 1260	ND (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
Aroclor 1262	0.4 (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 2:47	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		71 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		69 %		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>89 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2011B Date Sampled: 09/01/21 13:00 Percent Solids: N/A Initial Volume: 2.12 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 5:02	Sequence D1I0072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 5:02	D1I0072	DI10707
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 5:02	D1I0072	DI10707
Aroclor 1242	ND (0.2)		8082A		1	09/11/21 5:02	D1I0072	DI10707
Aroclor 1248	ND (0.2)		8082A		1	09/11/21 5:02	D1I0072	DI10707
Aroclor 1254	1.9 (0.2)		8082A		1	09/11/21 5:02	D1I0072	DI10707
Aroclor 1260	ND (0.2)		8082A		1	09/11/21 5:02	D1I0072	DI10707
Aroclor 1262	1.1 (0.2)		8082A		1	09/11/21 5:02	D1I0072	DI10707
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 5:02	D110072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		103 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		101 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>96 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2018A Date Sampled: 09/01/21 13:05 Percent Solids: N/A Initial Volume: 2.29 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	<u>Results (MRL)</u>	MDL	<u>Method</u>	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u>
Aroclor 1016	ND (0.2)		8082A		1	09/11/21 5:21	D110072	DI10707
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 5:21	D1I0072	DI10707
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 5:21	D1I0072	DI10707
Aroclor 1242	ND (0.2)		8082A		1	09/11/21 5:21	D1I0072	DI10707
Aroclor 1248	4.2 (0.2)		8082A		1	09/11/21 5:21	D1I0072	DI10707
Aroclor 1254	ND (0.2)		8082A		1	09/11/21 5:21	D1I0072	DI10707
Aroclor 1260	ND (0.2)		8082A		1	09/11/21 5:21	D1I0072	DI10707
Aroclor 1262 [2C]	1.9 (0.2)		8082A		1	09/11/21 5:21	D1I0072	DI10707
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 5:21	D110072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		54 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		58 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2018B Date Sampled: 09/01/21 13:08 Percent Solids: N/A Initial Volume: 2.29 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.2)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 5:41	Sequence D110072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
Aroclor 1242	ND (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
Aroclor 1248	5.5 (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
Aroclor 1254	ND (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
Aroclor 1260	ND (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
Aroclor 1262 [2C]	1.7 (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 5:41	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>75 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>92 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 2035B Date Sampled: 09/01/21 13:17 Percent Solids: N/A Initial Volume: 2.01 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 6:00	Sequence D1I0072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
Aroclor 1242	ND (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
Aroclor 1248 [2C]	P, LC 3.8 (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
Aroclor 1254	ND (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
Aroclor 1260	ND (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
Aroclor 1262 [2C]	5.5 (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 6:00	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		62 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		55 %		30-150				
Surrogate: Tetrachloro-m-xylene		82 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 5009A Date Sampled: 09/01/21 13:24 Percent Solids: N/A Initial Volume: 1.82 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Aroclor 1016 ND (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
	DIIO/0/
Aroclor 1221 ND (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
Aroclor 1232 ND (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
Aroclor 1242 ND (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
Aroclor 1248 ND (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
Aroclor 1254 ND (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
Aroclor 1260 9.8 (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
Aroclor 1262 ND (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
Aroclor 1268 6.0 (0.3) 8082A 1 09/11/21 6:19 D110072	DI10707
%Recovery Qualifier Limits	
Surrogate: Decachlorobiphenyl 971 % SM 30-150	
Surrogate: Decachlorobiphenyl [2C] 752 % SM 30-150	
Surrogate: Tetrachloro-m-xylene 85 % 30-150	
Surrogate: Tetrachloro-m-xylene [2C] 87 % 30-150	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 5009B Date Sampled: 09/01/21 13:26 Percent Solids: N/A Initial Volume: 1.41 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110142 ESS Laboratory Sample ID: 2110142-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.4) ND (0.4)		8082A 8082A		1	09/11/21 6:38	D110072	DI10707
Aroclor 1232	ND (0.4)		8082A		1	09/11/21 6:38	D1I0072	DI10707
Aroclor 1242	ND (0.4)		8082A		1	09/11/21 6:38	D1I0072	DI10707
Aroclor 1248	ND (0.4)		8082A		1	09/11/21 6:38	D1I0072	DI10707
Aroclor 1254	ND (0.4)		8082A		1	09/11/21 6:38	D1I0072	DI10707
Aroclor 1260	2.3 (0.4)		8082A		1	09/11/21 6:38	D1I0072	DI10707
Aroclor 1262	ND (0.4)		8082A		1	09/11/21 6:38	D1I0072	DI10707
Aroclor 1268 [2C]	2.4 (0.4)		8082A		1	09/11/21 6:38	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		385 %	SM	30-150				
Surrogate: Decachlorobiphenyl [2C]		325 %	SM	30-150				
Surrogate: Tetrachloro-m-xylene		71 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		77 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0142

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
L		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		- 1								
Batch DI10707 - 3540C										
Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Arocior 1262	ND	0.05	mg/kg wet							
Arocior 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Arocior 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0232		mg/kg wet	0.02500		93	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		95	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		97	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		94	40-140			
Surragata: Decachlorobinhonul	0.0236		ma/ka wet	0.02500		94	30-150			
Surrogate: Decachlorobinhenyl [30]	0.0223		mg/ka wet	0.02500		89	30-150			
Surrogate: Detachlorophenyi [20]	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogate: Tetrachloro-m-vulene [2C]	0.0235		mg/kg wet	0.02500		94	30-150			
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		85	40-140	11	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		83	40-140	9	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		88	40-140	10	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	9	30	
	0.0215		ma/ka wat	0 02500		96	30-150			
Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		00 87	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0203		mg/kg wet	0.02500		02 84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0210		mg/kg wet	0.02500		97 87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0207		mg/kg wet	0.02300		20	50-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 2110142

Notes and Definitions

U	Analyte included in the analysis, but not detected
SM	Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
Р	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V E/V	Einel V/ house
Γ/ V	
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
5 Aug	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NP	Results reported as a mathematical average.
	Calculated Analyte
SUD DI	Subcontracted analysis; see attached report
	Estimated Detection Limit
EDL	
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0142

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: 21/0142	
Shipped/Delivered Via: ESS Courier	Bale Received. 9/3/2021 Project Due Date: 9/13/2021 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4. Is a Cooler Present? Yes Temp: 4.1 Iced with: Ice	 Were labs informed about <u>short holds & rushes</u>? Were any analyses received outside of hold time? 	Yes / No/ NA)
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes (No) ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes (No) Yes / No Yes / No / NA
13. Are the samples properly preserved? Image: Comparison of the samples properly preserved? a. If metals preserved upon receipt: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? Date:	Yes / No Yes / No Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	204222	Yes	N/A	Yes	8 oz jar	NP	
2	204223	Yes	N/A	Yes	8 oz jar	NP	
3	204224	Yes	N/A	Yes	8 oz jar	NP	
4	204225	Yes	N/A	Yes	8 oz jar	NP	
5	204226	Yes	N/A	Yes	8 oz jar	NP	
6	204227	Yes	N/A	Yes	8 oz jar	NP	
7	204228	Yes	N/A	Yes	8 oz jar	NP	
8	204229	Yes	N/A	Yes	8 oz jar	NP	
9	204230	Yes	N/A	Yes	8 oz jar	NP	
10	204231	Yes	N/A	Yes	8 oz jar	NP	

2nd Review

Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached?



ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID:	21/0142
	Date Received:	9/3/2021
Are VOA stickers attached if bubbles noted?	Yes / No / 🚧	
Completed Constant	Date & Time:	18:43
Reviewed By:	Date & Time: 93	1905

ESS L	aboratory	4		c	HAIN OF CUSTO	ESS Lab # 21 I 12 14 2											
Division of	Thielsch Engi	ineering, Inc.		Turn Time	5-Day Rush		Report	ing	سمعد با	~	- •	<0.5 m	a/ka				
185 France	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island		Limit	s				~0.0 m	ging				
Tel. (401)	461-7181 Fax	x (401) 461-44	86	ls th	is project for any of the follo	wing?:	Elector	nic [] Limit Ch	necker		🗆 St	andard Exe	:el			
www.essla	boratory.com			O CT RCP		RGP	Deliverables 🗹 Other (Please				cify →)		. <u></u>	PDF			
	Coneco En	npany Name Igineers & Scie	entists	Project # 5675.F.101.004	Project Na Pawtucket Control House, 6 Tho												
	Cor	ntact Person Jark Zoller		Address 4 First Street													·
	City		S	tate	Zip Code	nal	2										
·	Bridgewate	r	Massa	chusetts	nusetts 02324 5675.F.101.004												
	61697-31 (508)	nber 91		umper	Jaevaelis, Mzoller, Kloftus, cm		p.										
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	. Sar	nple ID	:	PCBs									ļ
01	9/1/2021	12:35 pm	Grab	Solid	1	026B		X							: 1		
02	9/1/2021	12:47 pm	Grab	Solid	2	004A		X									
03	9/1/2021	12:49 pm	Grab	Solid	. 2	004B		x									
04	9/1/2021	12:58 pm	Grab	Solid	2	011A	,	X									-
05	9/1/2021	1:00 pm	Grab	Solid	2	01 1B		x							<u>.</u>		
06	9/1/2021	1:05 pm	Grab	Solid	Solid 2018A												
07	9/1/2021	1:08 pm	Grab	Solid	24	018B		x				<u>.</u>					
08	9/1/2021	1:17 pm	Grab	Solid	. 24	035B		X						<u> </u>			
09	9/1/2021	1:24 pm	Grab	Solid	5	009A		X									
10	9/1/2021	1:26 pm	Grab	Solid	5	009B		x						\square	<u> </u>	\perp	
Co	ntainer Type:	AC-Air Casse	tte AG-Amber Glas	ss B-BOD Bottle	C-Cubitainer G - Glass O-C	Other P-Poly S-Ster	ile V-Vial	AG						$\downarrow \downarrow$:	\perp	\bot
Conta	iner Volume:	1-100 mL 2	-2.5 gal 3-250 ml	_ 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	z 9-4 oz 10-8 oz	11-Other*	10						++			
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-DI H2C	11-Other*	11						+	<u>. </u>		<u> </u>
					Numbe	er of Containers per	Sample:	1									
		Laborator	y Use Only		Sampled by : KML												
Cooler	Present:	4e5			Comments:	Please spe	cify "Othe	er" pres	servativ	e and c	ontainers	s types ir	n this sp	ace			
Seals	s Intact:				National Grid Project, Use Ma	anual Soxhlet Extracti	on per EPA	A Meth	od 3540	, Report	Dry Weig	ht, 11=ic	е				
Cooler Te	emperature:	4.1	°C 1Ee	·····	TSCA Requirements, Provide	e Full Data Package			<u> </u>				-			<u> </u>	
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	e, Date	& Time)	Rece	ived By: (Signatur	e, Date	∋& lin	ne)	
				for first	913141	9/3/8	-7 16	:41		h~ 9.3.21 16:41							
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	hed By: (Signature, Date & Time) Received By: (Signature, Date & Time)										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F.101.004) ESS Laboratory Work Order Number: 2110143

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 12:07 pm, Sep 14, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0143

SAMPLE RECEIPT

The following samples were received on September 03, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21I0143-01	022A	Solid	8082A
2110143-02	022B	Solid	8082A
2110143-03	028A	Solid	8082A
21I0143-04	028B	Solid	8082A
2110143-05	1009A	Solid	8082A
2110143-06	1010A	Solid	8082A
2110143-07	1010B	Solid	8082A
2110143-08	1013A	Solid	8082A
21I0143-09	1024A	Solid	8082A
21I0143-10	1026A	Solid	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0143

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0143

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 022A Date Sampled: 09/01/21 11:15 Percent Solids: N/A Initial Volume: 2.13 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-01 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.2)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/11/21 6:58	Sequence D1I0072	<u>Batch</u> DI10707
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
Aroclor 1242	ND (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
Aroclor 1248	ND (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
Aroclor 1254 [2C]	1.0 (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
Aroclor 1260	ND (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
Aroclor 1262 [2C]	0.5 (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 6:58	D1I0072	DI10707
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		61 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		63 %		30-150				
Surrogate: Tetrachloro-m-xylene		67 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		73 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 022B Date Sampled: 09/01/21 11:18 Percent Solids: N/A Initial Volume: 2.03 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-02 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.2)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	Analyzed 09/10/21 21:51	Sequence D110091	<u>Batch</u> DI10708
Aroclor 1221	ND (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
Aroclor 1232	ND (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
Aroclor 1242	ND (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
Aroclor 1248	ND (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
Aroclor 1254 [2C]	0.7 (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
Aroclor 1260	ND (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
Aroclor 1262	0.4 (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
Aroclor 1268	ND (0.2)		8082A		1	09/10/21 21:51	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		39 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		43 %		30-150				
Surrogate: Tetrachloro-m-xylene		43 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		48 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 028A Date Sampled: 09/01/21 11:28 Percent Solids: N/A Initial Volume: 2.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-03 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.2) ND (0.2)		8082A		1	09/10/21 22:10	D110091	DI10708
Aroclor 1232	ND (0.2)		8082A		1	09/10/21 22:10	D1I0091	DI10708
Aroclor 1242	ND (0.2)		8082A		1	09/10/21 22:10	D1I0091	DI10708
Aroclor 1248	ND (0.2)		8082A		1	09/10/21 22:10	D1I0091	DI10708
Aroclor 1254 [2C]	0.5 (0.2)		8082A		1	09/10/21 22:10	D1I0091	DI10708
Aroclor 1260	ND (0.2)		8082A		1	09/10/21 22:10	D1I0091	DI10708
Aroclor 1262	ND (0.2)		8082A		1	09/10/21 22:10	D1I0091	DI10708
Aroclor 1268	ND (0.2)		8082A		1	09/10/21 22:10	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		80 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		87 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		101 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 028B Date Sampled: 09/01/21 11:35 Percent Solids: N/A Initial Volume: 2.22 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-04 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.2)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 22:30	Sequence D110091	<u>Batch</u> DI10708
Aroclor 1221	ND (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
Aroclor 1232	ND (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
Aroclor 1242	ND (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
Aroclor 1248	ND (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
Aroclor 1254	0.6 (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
Aroclor 1260 [2C]	ND (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
Aroclor 1262	ND (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
Aroclor 1268	ND (0.2)		8082A		1	09/10/21 22:30	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		81 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1009A Date Sampled: 09/01/21 11:40 Percent Solids: N/A Initial Volume: 2.29 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-05 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 22:49	Sequence D110091	<u>Batch</u> DI10708
Aroclor 1221	ND (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
Aroclor 1232	ND (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
Aroclor 1242	ND (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
Aroclor 1248	ND (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
Aroclor 1254 [2C]	3.7 (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
Aroclor 1260	ND (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
Aroclor 1262	0.4 (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
Aroclor 1268	ND (0.2)		8082A		1	09/10/21 22:49	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		78 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		75 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		86 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1010A Date Sampled: 09/01/21 11:45 Percent Solids: N/A Initial Volume: 0.63 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-06 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Aroclor 1221	ND (0.8) ND (0.8)		8082A 8082A		1	09/10/21 23:09	D110091	DI10708
Aroclor 1232	ND (0.8)		8082A		1	09/10/21 23:09	D1I0091	DI10708
Aroclor 1242	ND (0.8)		8082A		1	09/10/21 23:09	D1I0091	DI10708
Aroclor 1248	ND (0.8)		8082A		1	09/10/21 23:09	D1I0091	DI10708
Aroclor 1254 [2C]	10.0 (0.8)		8082A		1	09/10/21 23:09	D1I0091	DI10708
Aroclor 1260 [2C]	2.6 (0.8)		8082A		1	09/10/21 23:09	D1I0091	DI10708
Aroclor 1262	ND (0.8)		8082A		1	09/10/21 23:09	D1I0091	DI10708
Aroclor 1268	ND (0.8)		8082A		1	09/10/21 23:09	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		85 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		96 %		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		104 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1010B Date Sampled: 09/01/21 11:48 Percent Solids: N/A Initial Volume: 0.89 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-07 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	<u>Batch</u> D110708
Aroclor 1221	ND (0.6)		8082A		1	09/10/21 23:29	D110091	DI10708
Aroclor 1232	ND (0.6)		8082A		1	09/10/21 23:29	D1I0091	DI10708
Aroclor 1242	ND (0.6)		8082A		1	09/10/21 23:29	D1I0091	DI10708
Aroclor 1248	ND (0.6)		8082A		1	09/10/21 23:29	D1I0091	DI10708
Aroclor 1254 [2C]	11.1 (0.6)		8082A		1	09/10/21 23:29	D1I0091	DI10708
Aroclor 1260	3.0 (0.6)		8082A		1	09/10/21 23:29	D1I0091	DI10708
Aroclor 1262	ND (0.6)		8082A		1	09/10/21 23:29	D1I0091	DI10708
Aroclor 1268	ND (0.6)		8082A		1	09/10/21 23:29	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		87 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		85 %		30-150				
Surrogate: Tetrachloro-m-xylene		77 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1013A Date Sampled: 09/01/21 12:15 Percent Solids: N/A Initial Volume: 2.04 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-08 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (0.2)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 09/10/21 23:49	Sequence D110091	<u>Batch</u> DI10708
Aroclor 1221	ND (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
Aroclor 1232	ND (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
Aroclor 1242	ND (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
Aroclor 1248	ND (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
Aroclor 1254 [2C]	1.3 (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
Aroclor 1260	ND (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
Aroclor 1262	ND (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
Aroclor 1268	ND (0.2)		8082A		1	09/10/21 23:49	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		63 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		66 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		71 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1024A Date Sampled: 09/01/21 12:22 Percent Solids: N/A Initial Volume: 2.02 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-09 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
Aroclor 1221	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
Aroclor 1232	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
Aroclor 1242	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
Aroclor 1248	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
Aroclor 1254 [2C]	26.8 (2.5)		8082A		5	09/12/21 12:44	D1I0091	DI10708
Aroclor 1260	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
Aroclor 1262	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
Aroclor 1268	ND (0.2)		8082A		1	09/11/21 0:09	D1I0091	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		33 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		52 %		30-150				
Surrogate: Tetrachloro-m-xylene		74 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: 1026A Date Sampled: 09/01/21 12:30 Percent Solids: N/A Initial Volume: 2.1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 2110143 ESS Laboratory Sample ID: 2110143-10 Sample Matrix: Solid Units: mg/kg wet Analyst: MJV Prepared: 9/7/21 14:00

Analyte	Results (MRL)	<u>MDL</u>	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Arocior 1016	ND (0.2)		8082A		1	09/13/21 10:18	D110160	D110/08
Aroclor 1221	ND (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
Aroclor 1232	ND (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
Aroclor 1242	ND (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
Aroclor 1248	ND (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
Aroclor 1254 [2C]	2.1 (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
Aroclor 1260 [2C]	5.2 (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
Aroclor 1262	ND (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
Aroclor 1268	ND (0.2)		8082A		1	09/13/21 16:18	D1I0160	DI10708
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		64 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		71 %		30-150				
Surrogate: Tetrachloro-m-xylene		72 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0143

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch DI10707 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0232		mg/kg wet	0.02500		93	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0218		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0236		mg/kg wet	0.02500		94	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		95	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		91	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		97	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		94	40-140			
Surrageta: Decechlarabinhanul	0.0236		ma/ka wet	0.02500		94	30-150			
Surrogate. Decachlorobiphenyl	0.0223		ma/ka wet	0.02500		89	30-150			
Surrogate. Decachioroppierty [20]	0.0240		mg/kg wet	0.02500		96	30-150			
Surrogale: Tetrachloro m vulano [36]	0.0235		ma/ka wet	0.02500		94	30-150			
Arector 1016	0.4	0.02	ma/ka wat	0 5000		OF	40.140	11	20	
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		65	40-140	11	20	
	0.4	0.02	mg/kg wet	0.5000		65	40-140	9	50	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		88	40-140	10	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	9	30	
Surrogate: Decachlorobiphenyl	0.0215		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0210		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0207		mg/kg wet	0.02500		83	30-150			
Batch DI10708 - 3540C										

-7181 Fax: 401-461-4486 Quality • Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0143

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
L		8082A Poly	chlorinated E	Biphenyls	(PCB)					
		- <i>1</i>		. ,-						
Batch DI10708 - 3540C										
Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Arocior 1262	ND	0.02	mg/kg wet							
Arocior 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Arocior 1268 [2C]	ND	0.02	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0208		mg/kg wet	0.02500		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0189		mg/kg wet	0.02500		76	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0221		mg/kg wet	0.02500		88	30-150			
LCS										
Aroclor 1016	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		92	40-140			
Aroclor 1260	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		96	40-140			
Surragata: Decachlorobinhonul	0.0239		ma/ka wet	0.02500		96	30-150			
Surrogate: Decachlorobinhenyl [2C]	0.0247		ma/ka wet	0.02500		99	30-150			
Surrogate: DecacilioioDiffileIlyi [2C]	0.0223		mg/kg wet	0.02500		89	30-150			
Surrogate: Tetrachloro-m-vulene [2C]	0.0241		mg/kg wet	0.02500		97	30-150			
Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		86	40-140	7	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	7	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		90	40-140	6	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		90	40-140	7	30	
	0 0005			0.02500		62	20.152			
Surrogate: Decachlorobiphenyl	0.0225		mg/kg wet	0.02500		90	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0231		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0208		mg/kg wet	0.02500		<i>25</i>	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0224		mg/kg wet	0.02500		90	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0143

Notes and Definitions

П	Analyte included in the analysis, but not detected
D	Diluted
ND	Analyte NOT DETECTED at or above the MRL (LOO). LOD for DoD Reports. MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units
210	



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21I0143

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

> Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers</u> , Scientists & Surv - KPB/TB	ESS Project ID:21/0143	
Shipped/Delivered Via: ESS Courier	Project Due Date: 9/13/2021	
	Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2 Were custody seals present?	7. Is COG complete and correct?	Tes
	8. Were samples received intact?	Yes
3. Is radiation count <100 CPM? Yes		
	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No (NA)
4. Is a Cooler Present? Yes Temp: 4.1 Iced with: Ice	10. Were any analyses received outside of hold time?	Yes / No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes (No) ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes (No) Yes / No Yes / No / NA
13. Are the samples properly preserved?Yesa. If metals preserved upon receipt:Date:b. Low Level VOA vials frozen:Date:	Time: By: Time: By:	_
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted? Date:	Yes / No Yes / No Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	204232	Yes	N/A	Yes	8 oz jar	NP	
2	204233	Yes	N/A	Yes	8 oz jar	NP	
3	204234	Yes	N/A	Yes	8 oz jar	NP	
4	204235	Yes	N/A	Yes	8 oz jar	NP	
5	204236	Yes	N/A	Yes	8 oz jar	NP	
6	204237	Yes	N/A	Yes	8 oz jar	NP	
7	204238	Yes	N/A	Yes	8 oz jar	NP	
8	204239	Yes	N/A	Yes	8 oz jar	NP	
9	204240	Yes	N/A	Yes	8 oz jar	NP	
10	204241	Yes	N/A	Yes	8 oz jar	NP	

2nd Review

Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached?



ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID: _	2110143
Are VOA stickers attached if bubbles noted?	Date Received: Yes / No / NA	9/3/2021
Completed By:	Date & Time: 9-3-21	18:41
By:	Date & Time: 932	1906

ESS L	aborator	v	•••	C	CHAIN OF CUSTO	OY Y	ESS La	b#	ITO	142			
Division o	f Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush	Report	ing			<0.5 ma/ka			
185 Franc	es Avenue, Cr	anston RI 029	10	Regulatory State	Rhode Island	Limit	s			~0.5 mg/kg			
Tel. (401)	461-7181 Fa	x (401) 461 -4 4	86	ls th	is project for any of the follo	wing?:	Elector	nic ⊡≀	imit Checker		💭 Standard Excel		
www.essla	aboratory.com					RGP	Delivera	bles 🖂 (Other (Please S	pecify →)		PDF	
	Cor Coneco Er	npany Name Igineers & Scie	entists	5675.F.101.004	Project Na Pawtucket Control House, 6 Thor	i me ton Ave, Pawtucket, RI							
	Сон	ntact Person			Address 4 First Street		sis						
	City		s	tate	Zip Code	PO #	l al						
	Bridgewate	r	Massa	chusetts	02324	5675.F.101.004	Ā	808					
ן ו	elephone Nui (508) 697-31	mber 01	FAX I	Number	Email Addr Jaevaelis Mzoller Kloftus cm	'ess acuch@coneco.com		Δ Δ					
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	San	nple ID	1	PCBs					
01	9/1/2021	11:15 am	Grab	Solid	. 0	22A		x					
02	9/1/2021	11:18 am	Grab	Solid	. 0	22B	,	x					
03	9/1/2021	11:28 am	Grab	Solid	. 0	28A		x					
04	9/1/2021	11:35 am	Grab	Solid	0	28B		x					
05	9/1/2021	11:40 am	Grab	Solid	10	009A		x					
06	9/1/2021	11:45 am	Grab	Solid	10		x			-			
07	9/1/2021	11:48 am	Grab	Solid	10	010B		x					
08	9/1/2021	12:15 pm	Grab	Solid	10	013A		x					
09	9/1/2021	.12:22 pm	Grab	Solid	10)24A		x					
10	9/1/2021	12:30 pm	Grab	Solid	10)26A		x					
Co	ntainer Type:	AC-Air Casse	tte AG-Amber Gla	ss B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ster	ile V-Vial	AG					
Conta	iner Volume:	1-100 mL 2	2-2.5 gal 3-250 ml	_ 4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	10					
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	lethanol 7-Na2S2O3 8-ZnAce, NaC	DH 9-NH4CI 10-DI H2C) 11-Other*	11					
					Numbe	r of Containers per	Sample:	1					
		Laborator	y Use Only		Sampled by : KML								
Cooler	Present:	105			Comments:	Please spe	cify "Othe	r" prese	rvative and	containers	types in thi	s space	
Seal	s Intact:		-		National Grid Project, Use Ma	anual Soxhlet Extraction	on per EPA	Method	3540, Repo	rt Dry Weig	ht, 11=ice		
Cooler T	emperature:	4.1	°C / Ce		TSCA Requirements, Provide	Full Data Package							
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	, Date &	Time)	Recei	ived By: (Sigr	nature, Date	& Time)
	Z	P	and which are a start of a start	649	913101	to these	- ?/3/	4; 16	:41	h	-2	- Q	3-2-1
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	, Date &	Time)	Recei	ived By: (Sigr	nature, Date	& Time)

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 19J0013

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 3:31 pm, Oct 09, 2019

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0013

SAMPLE RECEIPT

The following samples were received on October 01, 2019 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 19J0013-01 19J0013-02 19J0013-03 Sample Name WS-03-01 WS-03-02 WS-02-01 **Matrix** Wipe Wipe Wipe **Analysis** 8082A 8082A 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0013

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0013

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-03-01 Date Sampled: 09/26/19 09:40 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0013 ESS Laboratory Sample ID: 19J0013-01 Sample Matrix: Wipe Units: ug/Wipe Analyst: MJV Prepared: 10/4/19 15:30

Analyte Aroclor 1016	Results (MRL) ND (0.5)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/07/19 22:24	Sequence Batch CJ90410
Aroclor 1221	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
Aroclor 1232	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
Aroclor 1242	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
Aroclor 1248	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
Aroclor 1254	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
Aroclor 1260	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
Aroclor 1262	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
Aroclor 1268	ND (0.5)		8082A		1	10/07/19 22:24	CJ90410
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		84 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150			
Surrogate: Tetrachloro-m-xylene		69 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		75 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-03-02 Date Sampled: 09/26/19 09:50 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0013 ESS Laboratory Sample ID: 19J0013-02 Sample Matrix: Wipe Units: ug/Wipe Analyst: MJV Prepared: 10/4/19 15:30

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> <u>Sequenc</u> 10/07/19 22:43	e <u>Batch</u> CJ90410
Aroclor 1221	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
Aroclor 1232	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
Aroclor 1242	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
Aroclor 1248	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
Aroclor 1254	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
Aroclor 1260	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
Aroclor 1262	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
Aroclor 1268	ND (0.5)		8082A		1	10/07/19 22:43	CJ90410
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		80 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		77 %		30-150			
Surrogate: Tetrachloro-m-xylene		<i>79 %</i>		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		87 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-02-01 Date Sampled: 09/26/19 09:20 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 19J0013 ESS Laboratory Sample ID: 19J0013-03 Sample Matrix: Wipe Units: ug/Wipe Analyst: MJV Prepared: 10/4/19 15:30

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> <u>Seque</u>	ence <u>Batch</u> CJ90410
Aroclor 1221	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
Aroclor 1232	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
Aroclor 1242	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
Aroclor 1248	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
Aroclor 1254	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
Aroclor 1260	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
Aroclor 1262	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
Aroclor 1268	ND (0.5)		8082A		1	10/07/19 23:03	CJ90410
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		78 %		30-150			
Surrogate: Decachlorobiphenyl [2C]		76 %		30-150			
Surrogate: Tetrachloro-m-xylene		76 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		83 %		30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0013

Quality Control Data

Analyte Readt MRL Units Level Readt %REC Limits RPD Limit Qualifier BB02A Polychlorinated Biphenyls (PCB Bank mcdx10106 ND 0.5 un/Wea V <td< th=""><th></th><th></th><th></th><th></th><th>Spike</th><th>Source</th><th></th><th>%REC</th><th></th><th>RPD</th><th></th></td<>					Spike	Source		%REC		RPD	
Bielic C199410 - 1540C Banch C199410 - 1540C View Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2">Second Colspan="2"Second	Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
Bank Crise Bank BankBank Bank Bank Bank Bank Bank Bank Bank Bank Bank			8082A Poly	chlorinated I	Biphenyls	(PCB)					
Bink Series Series <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>											
bink bink karder 105 karder 105 karder 105 karder 105 karder 105 karder 105 karder 102 ka	Batch CJ90410 - 3540C										
Archer IDD Archer	Blank										
namen marken in karl i	Aroclor 1016	ND	0.5	ug/Wipe							
Nacion 1212 (2)No0.50.9/WPMocion 122 (2)NO0.50.9/WPArodor 122 (2)NO0.50.9/WPArodor 122 (2)NO0.50.9/WPArodor 122 (2)NO0.50.9/WPArodor 124 (2) (2)NO0.50.9/WPArodor 124 (2) (2)NO0.50.9/WPArodor 124 (2) (2)NO0.50.9/WPArodor 124 (2) (2)NO0.50.9/WPArodor 124 (2) (2)NO0.50.9/WPArodor 125 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)NO0.50.9/WPArodor 126 (2) (2)ND0.50.9/WPArodor 126 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Aroclor 1016 [2C]	ND	0.5	ug/wipe							
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nanoa 1222 no 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	Aroclor 1221 [2C]	ND	0.5	ug/wipe							
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name 0.3 <th0.3< th=""> <th0.3< th=""></th0.3<></th0.3<>	Aroclor 1232 [2C]	ND	0.5	ug/wipe							
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Andoor 124% ND 0.5 ug/Wpe Andoor 1254 ND 0.5 ug/Wpe Andoor 1260 ND 0.5 ug/Wpe Andoor 1268 ND 0.5 ug/Wpe Andoor 1268 ND 0.5 ug/Wpe Andoor 1268 ND 0.5 ug/Wpe Sampatic: Decatchinodiphanyl 0.367 ug/Wpe 0.5000 27 30-150 Sampatic: Teatachinon: mylene 0.337 ug/Wpe 0.5000 67 30-150 Sampatic: Teatachino: mylene 0.337 ug/Wpe 0.5000 67 30-150 Sampatic: Teatachino: mylene 0.337 ug/Wpe 0.5000 67	Aroclor 1242 [2C]	ND	0.5	ug/Wipe							
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Andon 1241 ND 0.5 Ug Wipe Andon 125 [2] ND 0.5 ug/Wipe Andon 1260 ND 0.5 ug/Wipe Andon 1260 [2C] ND 0.5 ug/Wipe Andon 1260 [2C] ND 0.5 ug/Wipe Andon 1262 [2C] ND 0.5 ug/Wipe Andon 1262 [2C] ND 0.5 ug/Wipe Andon 1262 [2C] ND 0.5 ug/Wipe Andon 1263 [2C] ND 0.5 ug/Wipe Andon 1263 [2C] ND 0.5 ug/Wipe Andon 1263 [2C] ND 0.5 ug/Wipe Andon 1263 [2C] 0.387 ug/Wipe 0.5007 7 30-150 Surrogatic: Tetachloro-m-whole 0.386 ug/Wipe 0.5007 7 30-150 Surrogatic: Tetachloro-m-whole 0.386 ug/Wipe 10.00 78 40-140 Andon 136 [2C] 8.3 0.5 ug/Wipe 0.5007 76 30-150 Surrogatic: Tetachlo	Aroclor 1248 [2C]	ND	0.5	ug/wipe							
Autour 1261 [2.1] ND 0.5 ug/Wipe Arodor 1260 [XC] ND 0.5 ug/Wipe Arodor 1260 [XC] ND 0.5 ug/Wipe Arodor 1260 [XC] ND 0.5 ug/Wipe Arodor 1262 [XC] ND 0.5 ug/Wipe Arodor 1268 [XC] ND 0.5 ug/Wipe Arodor 1268 [XC] ND 0.5 ug/Wipe Arodor 1268 [XC] ND 0.5 ug/Wipe Sampate: Tetrachkorshiphenyl 2,363 ug/Wipe 0.5000 77 30-150 Sampate: Tetrachkors-m-sylene [2C] 2,366 ug/Wipe 0.5000 73 30-150 Sampate: Tetrachkors-m-sylene [2C] 8,3 0.5 ug/Wipe 0.5000 <t< td=""><td>Aroclor 1254</td><td>ND</td><td>0.5</td><td>ug/wipe</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Aroclor 1254	ND	0.5	ug/wipe							
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Andon 1260 [2.] ND 0.5 ugWine Andor 1252 ND 0.5 ugWine Andor 1268 ND 0.5 ugWine Andor 1268 [2.C] ND 0.5 ugWine Surrapite: Decachionobjehenyl 0.383 ugWine 0.500 77 30-150 Surrapite: Decachionobjehenyl 0.3837 ugWine 0.5000 73 30-150 Surrapite: Tetrachiono-m-sylene 0.337 ugWine 0.5000 73 30-150 Surrapite: Tetrachiono-m-sylene [2.C] 0.366 ugWine 0.5000 73 30-150 Surrapite: Tetrachiono-m-sylene [2.C] 0.366 ugWine 10.00 78 40-140 Andor 1016 7.8 0.5 ugWine 10.00 84 40-140 Andor 1016 [2.C] 8.3 0.5 ugWine 0.5000 76 30-150 Surrapite: Decachionobjehenyl 0.57 ugWine 0.5000 76 30-150 Surrapite: Decachionobjehenyl 0.375 ugWine 0	Aroclor 1260	ND	0.5	ug/wipe							
Andon 1262 ND 0.5 ug/Wipe Andor 1268 ND 0.5 ug/Wipe Andor 1268 ND 0.5 ug/Wipe Andor 1268 [2C] ND 0.5 ug/Wipe Surrogate: Decahlonobiphanyl 0.383 ug/Wipe 0.500 77 30-150 Surrogate: Decahlonobiphanyl 0.383 ug/Wipe 0.500 73 30-150 Surrogate: Decahlonobiphanyl 0.364 ug/Wipe 0.500 73 30-150 Surrogate: Decahlonobiphanyl 0.363 ug/Wipe 0.500 73 30-150 Surrogate: Tetrachloro-m-xylene 0.346 ug/Wipe 0.500 73 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.366 ug/Wipe 10.00 78 40-140 Andor 116 [2C] 8.3 0.5 ug/Wipe 10.00 84 40-140 Andor 1260 8.4 0.5 ug/Wipe 0.500 76 30-150 Surrogate: Decahlonobiphenyl 0.372 ug/Wipe 0.5000 72 30-150 Surrogate: Decahlonobiphenyl [2C] 0.362	Aroclor 1260 [2C]	ND	0.5	ug/wipe							
Andour 1262 (c.) ND 0.3 0.9 White Andour 1268 (c.) ND 0.5 ug/Wipe Andour 1268 (c.) ND 0.5 ug/Wipe Surrogate: Decachlorobiphenyl 0.363 ug/Wipe 0.5000 77 30-150 Surrogate: Decachlorobiphenyl (2C) 0.363 ug/Wipe 0.5000 73 30-150 Surrogate: Tetrachloro-m-sylene 0.337 ug/Wipe 0.5000 73 30-150 Surrogate: Tetrachloro-m-sylene (2C) 0.366 ug/Wipe 0.5000 73 30-150 Surrogate: Tetrachloro-m-sylene (2C) 0.366 ug/Wipe 0.5000 73 30-150 Surrogate: Tetrachloro-m-sylene (2C) 8.3 0.5 ug/Wipe 10.00 83 40-140 Arcolor 1260 8.4 0.5 ug/Wipe 0.00 84 40-140 Surrogate: Decachlorobphenyl (2C) 0.345 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobphenyl (2C) 0.345 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-sylene 0.335 ug/Wipe 0.5000 <td>Aroclor 1262</td> <td>ND</td> <td>0.5</td> <td>ug/wipe</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Aroclor 1262	ND	0.5	ug/wipe							
Andoor 1266 ND 0.5 ug/Wipe Surrogate: Decachlorobiphenyl 0.383 ug/Wipe 0.5000 77 30-150 Surrogate: Decachlorobiphenyl 0.337 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.337 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.337 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.336 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 2.2(1 0.366 ug/Wipe 0.5000 78 40-140 Acodor 1016 7.8 0.5 ug/Wipe 10.00 84 40-140 Acodor 1260 8.4 0.5 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl 0.3375 ug/Wipe 0.5000<	Aroclor 1262 [2C]	ND	0.5	ug/wipe							
Andoor 126e [A] NO 0.5 ug/wipe Surragate: Decachlorobiphenyl [2C] 0.363 ug/Wipe 0.5000 77 30-150 Surragate: Decachlorobiphenyl [2C] 0.363 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-xylene 0.317 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-xylene [2C] 0.366 ug/Wipe 0.5000 73 30-150 ICS Nodor 1016 7.8 0.5 ug/Wipe 10.00 78 40-140 Anodor 1016 [2C] 8.3 0.5 ug/Wipe 10.00 83 40-140 Anodor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 84 40-140 Surragate: Decachlorobiphenyl 3.37 ug/Wipe 0.5000 72 30-150 Surragate: Decachlorobiphenyl [2C] 0.362 ug/Wipe 0.5000 72 30-150 Surragate: Tetrachloro-m-xylene 0.375 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-xylene 0.345 ug/Wipe 0.5000 67 30-150 <	Aroclor 1208	ND	0.5	ug/wipe							
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Surrogate: Tetrachloro-m-xylene 0.337 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.366 ug/Wipe 0.5000 73 30-150 LCS Arodor 1016 7.8 0.5 ug/Wipe 10.00 78 40-140 Arodor 1016 [2C] 8.3 0.5 ug/Wipe 10.00 83 40-140 Arodor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 84 40-140 Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl 0.362 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 67 30-150 Surrogate: T	Surrogate: Decachlorobiphenyl [2C]	0.363		ug/Wipe	0.5000		73	30-150			
Surragate: Tetrachloro-m-wlene [2C] 0.366 ug/Wipe 0.500 73 30-150 LCS Arcdor 1016 7.8 0.5 ug/Wipe 10.00 78 40-140 Arcdor 1016 [2C] 8.3 0.5 ug/Wipe 10.00 83 40-140 Arcdor 1260 8.4 0.5 ug/Wipe 10.00 84 40-140 Arcdor 1260 [2C] 9.4 0.5 ug/Wipe 0.5000 76 30-150 Surragate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 72 30-150 Surragate: Tetrachloro-m-sylene 0.325 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-sylene [2C] 0.345 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-sylene [2C] 0.345 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-sylene [2C] 0.345 ug/Wipe 0.5000 69 30-150 Arcdor 1016 7.9 0.5 ug/Wipe 10.00 86 40-1	Surrogate: Tetrachloro-m-xylene	0.337		ug/Wipe	0.5000		67	30-150			
LCS Aroclor 1016 7.8 0.5 ug/Wipe 10.00 78 40-140 Aroclor 1016 [2C] 8.3 0.5 ug/Wipe 10.00 83 40-140 Aroclor 1260 8.4 0.5 ug/Wipe 10.00 84 40-140 Aroclor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 94 40-140 Aroclor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 94 40-140 Aroclor 1260 [2C] 9.4 0.5 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 72 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.345 ug/Wipe 10.00 86 40-140 3 30 Aroclor 1016 7.9 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 [2C] 8.6	Surrogate: Tetrachloro-m-xylene [2C]	0.366		ug/Wipe	0.5000		73	30-150			
Arodor 1016 7.8 0.5 ug/Wipe 10.00 78 40-140 Arodor 1016 [2C] 8.3 0.5 ug/Wipe 10.00 83 40-140 Arodor 1260 8.4 0.5 ug/Wipe 10.00 84 40-140 Arodor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 94 40-140 Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.345 ug/Wipe 0.5000 69 30-150 LCS Dup 30 Arodor 1016 7.9 0.5 ug/Wipe 10.00 86 40-140 3 30 Arodor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 87 40-140 3 30 Arodor 1260 [2C] 9.8 0.5 ug/Wipe <t< td=""><td>LCS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	LCS										
Arodor 1016 [2C] 8.3 0.5 ug/Wipe 10.00 83 40-140 Arodor 1260 8.4 0.5 ug/Wipe 10.00 84 40-140 Arodor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 94 40-140 Surragate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surragate: Decachlorobiphenyl [2C] 0.362 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 67 30-150 Surragate: Tetrachloro-m-xylene [2C] 0.345 ug/Wipe 0.5000 69 30-150 LCS Dup ug/Wipe 0.5000 69 30-150 Arodor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 3 30 Arodor 1260 8.7 0.5 ug/Wipe 10.00 86 40-140 3 30 Arodor 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 5 30 Surragate: Decachlorobiphenyl	Aroclor 1016	7.8	0.5	ug/Wipe	10.00		78	40-140			
Arodor 1260 8.4 0.5 ug/Wipe 10.00 84 40-140 Arodor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 94 40-140 Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl [2C] 0.362 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene 0.345 ug/Wipe 0.5000 69 30-150 LCS Dup Nacdor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 2 30 Arodor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 79 40-140 3 30 Arodor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 86 40-140 3 30 Arodor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 87 40-140 3 30 Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 77 30-150	Aroclor 1016 [2C]	8.3	0.5	ug/Wipe	10.00		83	40-140			
Arodor 1260 [2C] 9.4 0.5 ug/Wipe 10.00 94 40-140 Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl [2C] 0.362 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 69 30-150 LCS Dup Hodor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 2 30 Arodor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 79 40-140 3 30 Arodor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 86 40-140 3 30 Arodor 1260 [2C] 8.6 0.5 ug/Wipe 10.00 86 40-140 3 30 Arodor 1260 [2C] 8.7 0.5 ug/Wipe 10.00 87 40-140 5 30 Surrogate: Decachlorobiphenyl 0.338 ug/Wipe 10.00 87 40-140 5 30 Surrogate: Decachlorobiphenyl 0.385 <t< td=""><td>Aroclor 1260</td><td>8.4</td><td>0.5</td><td>ug/Wipe</td><td>10.00</td><td></td><td>84</td><td>40-140</td><td></td><td></td><td></td></t<>	Aroclor 1260	8.4	0.5	ug/Wipe	10.00		84	40-140			
Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl [2C] 0.362 ug/Wipe 0.5000 72 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.345 ug/Wipe 0.5000 69 30-150 LCS Dup	Aroclor 1260 [2C]	9.4	0.5	ug/Wipe	10.00		94	40-140			
Surrogate: Decachlorobiphenyl 0.379 ug/Wipe 0.5000 76 30-150 Surrogate: Decachlorobiphenyl [2C] 0.362 ug/Wipe 0.5000 67 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.345 ug/Wipe 0.5000 69 30-150 LCS Dup L L L L L L Surrogate: Tetrachloro-m-xylene [2C] 0.5 ug/Wipe 10.00 79 40-140 2 30 Aroclor 1016 7.9 0.5 ug/Wipe 10.00 86 40-140 3 30 Aroclor 1260 8.6 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 88 40-140 5 30 Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 80 30-150 30 Surrogate: Decachlorobiphenyl 0.343 ug/Wipe 0.5000 77 30-150 30		0.070		0.4.0	0.5000		74	22.452			
Surrogate: Decachlorobiphenyl [2C] 0.362 ug/Wipe 0.5000 72 30-150 Surrogate: Tetrachloro-m-xylene 0.335 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.345 ug/Wipe 0.5000 69 30-150 LCS Dup Aroclor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 2 30 Aroclor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 86 40-140 3 30 Aroclor 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 87 40-140 3 30 Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 80 30-150 30 Surrogate: Decachlorobiphenyl [2C] 0.385 ug/Wipe 0.5000 77 30-150 Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene 0.352 ug/Wipe 0.5000	Surrogate: Decachlorobiphenyl	0.379		ug/wipe	0.5000		/6	30-150			
Surrogate: Tetrachloro-m-xylene 0.333 ug/Wipe 0.3000 67 30-130 Surrogate: Tetrachloro-m-xylene [2C] 0.345 ug/Wipe 0.5000 69 30-150 LCS Dup Aroclor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 2 30 Aroclor 1016 7.9 0.5 ug/Wipe 10.00 86 40-140 3 30 Aroclor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 87 40-140 5 30 Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 80 30-150 Surrogate: Decachlorobiphenyl [2C] 0.385 ug/Wipe 0.5000 77 30-150 Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.352 ug/Wipe	Surrogate: Decachlorobiphenyl [2C]	0.362		ug/wipe	0.5000		/2	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.545 ug/Wipe 0.500 09 50-130 LCS Dup Aroclor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 2 30 Aroclor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 86 40-140 3 30 Aroclor 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 87 40-140 5 30 Surrogate: Decachlorobipheny/ 0.398 ug/Wipe 0.5000 80 30-150 90 <td>Surrogate: Tetrachloro-m-xylene</td> <td>0.335</td> <td></td> <td>ug/wipe</td> <td>0.5000</td> <td></td> <td>67</td> <td>20 150</td> <td></td> <td></td> <td></td>	Surrogate: Tetrachloro-m-xylene	0.335		ug/wipe	0.5000		67	20 150			
LCS Dup Aroclor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 2 30 Aroclor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 86 40-140 3 30 Aroclor 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 98 40-140 5 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 98 40-140 5 30 Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 80 30-150 5 30 Surrogate: Decachlorobiphenyl [2C] 0.385 ug/Wipe 0.5000 77 30-150 5 5 5 Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 5 5 5 Surrogate: Tetrachloro-m-xylene [2C] 0.352 ug/Wipe 0.5000 70 30-150 5 5	Surrogate: Tetrachloro-m-xylene [2C]	0.345		ug/wipe	0.5000		69	30-150			
Aroclor 1016 7.9 0.5 ug/Wipe 10.00 79 40-140 2 30 Aroclor 1016 [2C] 8.6 0.5 ug/Wipe 10.00 86 40-140 3 30 Aroclor 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 3 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 87 40-140 5 30 Aroclor 1260 [2C] 9.8 0.5 ug/Wipe 10.00 98 40-140 5 30 Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 80 30-150 5 5 Surrogate: Decachlorobiphenyl [2C] 0.385 ug/Wipe 0.5000 77 30-150 5 5 Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 5 5 Surrogate: Tetrachloro-m-xylene [2C] 0.352 ug/Wipe 0.5000 70 30-150 5	LCS Dup								-		
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Arocion 1260 8.7 0.5 ug/Wipe 10.00 87 40-140 3 30 Arocion 1260 [2C] 9.8 0.5 ug/Wipe 10.00 98 40-140 5 30 Arocion 1260 [2C] 9.8 0.5 ug/Wipe 10.00 98 40-140 5 30 Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 80 30-150 90	Aroclor 1016 [2C]	8.6	0.5	ug/wipe	10.00		86	40-140	3	30	
Arocior 1260 [2C] 9.8 0.5 ug/Wipe 10.00 98 40-140 5 30 Surrogate: Decachlorobipheny/ 0.398 ug/Wipe 0.5000 80 30-150 5 30 Surrogate: Decachlorobipheny/ 0.385 ug/Wipe 0.5000 77 30-150 5 5 30 Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 5<	Aroclor 1260	8.7	0.5	ug/Wipe	10.00		87	40-140	3	30	
Surrogate: Decachlorobiphenyl 0.398 ug/Wipe 0.5000 80 30-150 Surrogate: Decachlorobiphenyl [2C] 0.385 ug/Wipe 0.5000 77 30-150 Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.352 ug/Wipe 0.5000 70 30-150	Arocior 1260 [2C]	9.8	0.5	ug/Wipe	10.00		98	40-140	5	30	
Surrogate: Decachlorobiphenyl [2C] 0.385 ug/Wipe 0.5000 77 30-150 Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.352 ug/Wipe 0.5000 70 30-150	Surrogate: Decachlorobiphenyl	0.398		ug/Wipe	0.5000		80	30-150			
Surrogate: Tetrachloro-m-xylene 0.343 ug/Wipe 0.5000 69 30-150 Surrogate: Tetrachloro-m-xylene [2C] 0.352 ug/Wipe 0.5000 70 30-150	Surrogate: Decachlorobiphenyl [2C]	0.385		ug/Wipe	0.5000		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C] 0.352 ug/Wipe 0.5000 70 30-150	Surrogate: Tetrachloro-m-xylene	0.343		ug/Wipe	0.5000		69	30-150			
	Surrogate: Tetrachloro-m-xylene [2C]	0.352		ug/Wipe	0.5000		70	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0013

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 19J0013

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

فالكر المساعلية

1

Client: <u>Co</u> Shipped/Deliv	oneco Engine vered Via:	eers, Scienti	sts & Surv - K	PB/TB/MM		ESS Pr Date R Project D Davs for	oject ID: eceived: ue Date: Project:	19J 10/1 10/8 5	0013 /2019 /2019 Day	
 Air bill mani Air No.: Were custo Is radiation Is a Cooler Temp: Was COC s 	ifest present dy seals pre count <100 Present? 0.4 signed and c	? <u>NA</u> sent? CPM? Iced with: _ fated by clie		No No Yes Yes		6. Does COC m 7. is COC comp 8. Were sample 9. Were labs in 10. Were any a	natch bottles? olete and corre es received int nformed abou analyses recei	ect? act? t <u>short holds</u> ved outside o	s & rushes? f hold time?	Yes Yes Yes / No Yes / No
11. Any Subco ESS Sa	ontracting ne mple IDs: Analysis: TAT:	eded?	Yes /			12. Were VOAs a. Air bubbles b. Does metha	s received? in aqueous V(inol cover soil	DAs? completely?		Yes / No Yes / No Yes / No / NA
13. Are the sa a. If metals pr b. Low Level V Sample Receiv	amples propereserved upo VOA vials fro ving Notes:	erly preserv on receipt: ozen:	ed?	res)/ No Date: Date:		Time: Time:		By: By:		
14. Was there a. Was there Who was cont	e a need to c a need to cc acted?	contact Proj	ect Manager ient?	? Date:	Yes / No Yes / No) Time:		By:		
Sample C Number	Container ID (Proper /	Air Bubbles Present	Sufficient Volume	Contair	er Type	Preservat	ive	Record pH ((Pes	Cyanide and 608 ticides)
01 02 03	393616 393615 393614	Yes Yes Yes	NA NA NA	Yes Yes Yes	4 oz. Jar 4 oz. Jar 4 oz. Jar	- Hexane - Hexane - Hexane	Hexane Hexane Hexane			
2nd Review Were all cont Are barcode la Are all Flashp Are all Hex Ch Are all QC stic Are VOA stick	ainers scar abels on corr oint stickers nrome sticke ckers attached rers attached	ned into st rect contain attached/co rs attached ed? i if bubbles	torage/lab? ers? ontainer ID # ? noted?	circled?	Initials	Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA				
Completed By: Reviewed By: Delivered By:	9	S.	}		Date & Time	10/11	/9 1/19 10/19	1917 1914 1914 1914		

ESS La	aborator	v		C	HAIN OF CUSTO	ESS Lai	o #	195	150013						
Division of	Thielsch Eng	ineering, Inc.		Turn Time	5-Day Rush		Reporting				< 10µg/100cm2				
185 France	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island	Rhode Island Limits									
Tel. (401) 4	461-7181 Fa	x (401) 461-44	86	ls thi	is project for any of the follow	wing?:	Elector	ic C	I Limit Chec	ker		🗆 Standa	rd Excel		
www.esslal	boratory.com			O CT RCP		3GP	Deliverat	oles ⊡	Other (Plea	ise Specify	<u>→)</u>		PDF		• •
	Cor	npany Name		Project #	Project Na Boutucket & Control House & Tho	me mon Ave Pawtucket Ri									
	Coneco Eng	ntact Person			Address	mon Pare, I and okor IV	.5								
	N	Mark Zoller			4 First Street		lys								
	City		S	ate	Zip Code	PO #	Ana								
	Bridgewate	er	EAX N	/A	U2324 Email Addr	56/5.F		8							
14	508-697-31	91			jaevazalis,mzoller,kloftus,ddfr	ancesco@coneco.co		8							
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	San	ple ID		PCBs							
01	9/26/19	9:40 am	Grab	Wipe	ws	-03-01		x							
02	9/26/19	9:50 am	Grab	Wipe	ws	-03-02		х							
03	9/26/19	09:20 am	Grab	Wipe	WS	-02-01		x							
· · · · · ·															
Cor	ntainer Type:	AC-Air Casse	tte AG-Amber Glas	s B-BOD Bottle	C-Cubitainer G - Glass O-O	ther P-Poly S-Ster	ile V-Vial	AG							
Contai	iner Volume:	1-100 mL 2	2-2.5 gal 3-250 ml	4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9							
Preser	vation Code:	1-Non Preserved	2-HCI 3-H2\$O4	4-HNO3 5-NaOH 6-M	lethanol 7-Na2S2O3 8-ZnAce, NaC	0H 9-NH4CI 10-DI H2C) 11-Other*	11							
					Numbe	r of Containers per	Sample:	1							
		Laborator	y Use Only		Sampled by : KML										
Cooler	Present:				Comments:	Please spe	cify "Othe	r" pre	servative	and con	tainers t	ypes in th	is space		
Seals	s Intact:	MA.		1	National Grid Project, Use Ma	nual Soxhlet Extracti	on per EPA	Meth	od 3540, I	nomogen	ize samp	le, TSCA I	Requireme	nts, Full	Data
Cooler Te	emperature:		·c laden	2,0,4	Package, Hexane Preserved,	Wipe Area 100cm2					_				
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	, Date	& Time)		Receive	ed By: (Sig	nature, Da	te & Tin	ne)
	\sim	\sim		LAR	- 10/1/19 12:36	LAZ	10/1/1	9 [6:37		\mathbb{N}	10/1	18 16	37	
Re	linquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	, Date	& Time)		Receive	ed By: (Sig	nature, Da	te & Tin	ne)
											1	_			

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Mark Zoller Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20A0096

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 1:59 pm, Jan 14, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0096

SAMPLE RECEIPT

The following samples were received on January 07, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 20A0096-01 20A0096-02 20A0096-03 Sample Name WS-01-01 WS-02-02 WS-04-01 **Matrix** Wipe Wipe Wipe **Analysis** 8082A 8082A 8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0096

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0096

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.


The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-01-01 Date Sampled: 01/03/20 13:30 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0096 ESS Laboratory Sample ID: 20A0096-01 Sample Matrix: Wipe Units: ug/Wipe Analyst: MJV Prepared: 1/9/20 16:00

Analyte Aroclor 1016	Results (MRL) ND (0.5)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/11/20 2:12	Sequence C0A0205	<u>Batch</u> CA00915
Aroclor 1221	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
Aroclor 1232	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
Aroclor 1242	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
Aroclor 1248	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
Aroclor 1254	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
Aroclor 1260	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
Aroclor 1262	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
Aroclor 1268	ND (0.5)		8082A		1	01/11/20 2:12	C0A0205	CA00915
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>98 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		105 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-02-02 Date Sampled: 01/03/20 13:45 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0096 ESS Laboratory Sample ID: 20A0096-02 Sample Matrix: Wipe Units: ug/Wipe Analyst: MJV Prepared: 1/9/20 16:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (0.5)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/11/20 2:31	Sequence C0A0205	<u>Batch</u> CA00915
Aroclor 1221	ND (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
Aroclor 1232	ND (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
Aroclor 1242	ND (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
Aroclor 1248	ND (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
Aroclor 1254	ND (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
Aroclor 1260	5.8 (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
Aroclor 1262	ND (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
Aroclor 1268	ND (0.5)		8082A		1	01/11/20 2:31	C0A0205	CA00915
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		100 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		102 %		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-04-01 Date Sampled: 01/03/20 14:00 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20A0096 ESS Laboratory Sample ID: 20A0096-03 Sample Matrix: Wipe Units: ug/Wipe Analyst: MJV Prepared: 1/9/20 16:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (0.5)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 01/11/20 2:50	Sequence C0A0205	<u>Batch</u> CA00915
Aroclor 1221	ND (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
Aroclor 1232	ND (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
Aroclor 1242	ND (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
Aroclor 1248	ND (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
Aroclor 1254	ND (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
Aroclor 1260 [2C]	1.4 (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
Aroclor 1262	ND (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
Aroclor 1268	ND (0.5)		8082A		1	01/11/20 2:50	C0A0205	CA00915
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		103 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		106 %		30-150				
Surrogate: Tetrachloro-m-xylene		89 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		104 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0096

Quality Control Data

				Spike	Source	0/5-5	%REC		RPD	
Anaiyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated I	Biphenyls	(PCB)					
Batch CA00915 - 3540C										
Blank										
Aroclor 1016	ND	0.5	ug/Wipe							
Aroclor 1016 [2C]	ND	0.5	ug/Wipe							
Aroclor 1221	ND	0.5	ug/Wipe							
Aroclor 1221 [2C]	ND	0.5	ug/Wipe							
Aroclor 1232	ND	0.5	ug/Wipe							
Aroclor 1232 [2C]	ND	0.5	ug/Wipe							
Aroclor 1242	ND	0.5	ug/Wipe							
Aroclor 1242 [2C]	ND	0.5	ug/Wipe							
Aroclor 1248	ND	0.5	ug/Wipe							
Aroclor 1248 [2C]	ND	0.5	ug/Wipe							
Aroclor 1254	ND	0.5	ug/Wipe							
Aroclor 1254 [2C]	ND	0.5	ug/Wipe							
Aroclor 1260	ND	0.5	ug/Wipe							
Aroclor 1260 [2C]	ND	0.5	ug/Wipe							
Aroclor 1262	ND	0.5	ug/Wipe							
Aroclor 1262 [2C]	ND	0.5	ug/Wipe							
Aroclor 1268	ND	0.5	ug/Wipe							
Aroclor 1268 [2C]	ND	0.5	ug/Wipe							
Surrogate: Decachlorobiphenyl	0.511		ug/Wipe	0.5000		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.547		ug/Wipe	0.5000		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.408		ug/Wipe	0.5000		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.469		ug/Wipe	0.5000		94	30-150			
LCS										
Aroclor 1016	9.4	0.5	ug/Wipe	10.00		94	40-140			
Aroclor 1016 [2C]	9.5	0.5	ug/Wipe	10.00		95	40-140			
Aroclor 1260	9.3	0.5	ug/Wipe	10.00		93	40-140			
Aroclor 1260 [2C]	9.7	0.5	ug/Wipe	10.00		97	40-140			
Surrogate: Decachlorobiphenyl	0.511		ug/Wipe	0.5000		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.529		ug/Wipe	0.5000		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.440		ug/Wipe	0.5000		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.479		ug/Wipe	0.5000		96	30-150			
LCS Dup										
Aroclor 1016	9.3	0.5	ug/Wipe	10.00		93	40-140	0.6	30	
Aroclor 1016 [2C]	9.5	0.5	ug/Wipe	10.00		95	40-140	0.4	30	
Aroclor 1260	9.3	0.5	ug/Wipe	10.00		93	40-140	0.09	30	
Aroclor 1260 [2C]	9.8	0.5	ug/Wipe	10.00		98	40-140	1	30	
Surrogate: Decachlorobiphenyl	0.510		ug/Wipe	0.5000		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.534		ug/Wipe	0.5000		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.449		ug/Wipe	0.5000		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.477		ug/Wipe	0.5000		95	30-150			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0096

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	
F/V	Final Volume
§.	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20A0096

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineer</u>	s, Scientists & Surv	- KPB/TB_	ESS Project ID:	20A0096	
Shinned/Delivered Via:	ESS Courier		Project Due Date:	1/13/2020	
			Days for Project:	<u>5 Day</u>	
1. Air bill manifest present? Air No.: N	A	No	6. Does COC match bot	tles?	Yes
2. Were custody seals presen	t? [No	7. Is COC complete and	correct?	Yes
3. Is radiation count <100 CPM	M?	Yes	8. Were samples receiv	about short holds & rushes?	Yes / No NA
4. Is a Cooler Present? Temp: <u>3.5</u> iced	l with: <u>Ice</u>	Yes	10. Were any analyses	received outside of hold time?	Yes No
5. Was COC signed and date	d by client?	Yes			
11. Any Subcontracting neede ESS Sample IDs: Analysis: 	d? Yes /	No	12. Were VOAs receive a. Air bubbles in aqueo b. Does methanol cove	d? rus VOAs? rr soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properlya. If metals preserved upon reb. Low Level VOA vials frozen	preserved? eceipt: n:	Yes No Date: Date:	Time: Time:	By: By:	
Sample Receiving Notes:					
14. Was there a need to cont a. Was there a need to conta Who was contacted?	lact Project Manager	? Date: j	Yes / No Yes / No Time:	Ву:	
Sample Container Pr Number ID Cor	oper Air Bubbles ntainer Present	Sufficient Volume	Container Type Pre	servative Record pH (Cyanide and 608 sticides)
1 764	Yes N/A	Yes	4 oz. Jar	lexane	
2 765	Yes N/A	Yes	4 oz. Jar H	lexane	
2 766	Yes N/A	Yes	4 oz Jar	lexane	
3 700			/ 1		
2nd Review Were all containers scanne Are barcode labels on correc Are all Flashpoint stickers att Are all Hex Chrome stickers Are all QC stickers attached Are VOA stickers attached if	ed into storage/lab? t containers? ached/container ID a attached? ? bubbles noted?	# circled?	Initials Yes / No / NA Yes / No / NA Yes / No / NA Yes / Nd / NA Yes / Nd / NA		

ESS L	aboratory CHAIN OF CUSTODY					Y	ESS La	b #	$\partial \mathcal{O}$	4 CX	396	>					
Division of	f Thielsch Engi	neering, Inc.		Turn Time	5-Day Rush		Reporti	ng				< 1014	n/100er	2			
185 Franc	es Avenue, Cr	anston RI 0291	10	Regulatory State	Rhode Island		Limit	\$				< 10µį	y/1000i	1			
Tel. (401)	461-7181 Fa	x (401) 461-44	86	Is thi	is project for any of the follow	ing?:	Elector	nic 🗆	Limit Che	:ker		C	🗌 Standar	d Excel			
www.essla	aboratory.com			O CT RCP	O MA MCP O R	GP	Delivera	oles 🖸	Other (Pla	ase Specify	/ →)	- 1-		F	DF		
	Cor	npany Name		Project #	Project Nam	l C n Avo, Powłuckot Ri											
	Coneco Er	igineers & Scie	entists	507 <u>5.</u> r	Address	TAVE, Fawiguket, Ki	- s										
	N N	Aark Zoller			4 First Street		lysi										
	City		S	tate	Zip Code	/na	N										
	Bridgewate	r mhor	Massa	ichusetts	02324 Email Addres	-	808										
	(508) 697-31	nber 91		Antimer	Jaevaelis, Mzoiler, Kloftus, Ddifran	cesco@coneco.com		Ã									
ESS Lab	Collection Date	Collection Time	Sample Type	Sample Matrix	Samp	ile ID		PCBs									
01	1/3/2020	1:30 p.m.	Grab	Solid	WS-0	1-01		х									
02	1/3/2020	1:45 p.m.	Grab	Solid	WS-0	2-02		x									
03	1/3/2020	2:00 p.m.	Grab	Solid	WS-0	4-01		X									
																ļ	
Co	ntainer Type:	AC-Air Casset	te AG-Amber Gla	ss B-BOD Bottle (C-Cubitainer G Glass O-Oth	er P-Poly S-Sto	erile V-Vial	AG		_						4	
Conta	ainer Volume:	1-100 mL 2	-2.5 gal 3-250 ml	_ 4-300 mL 5-500) mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	9				╉┈┤	_		_	╉┈╴┨	
Prese	rvation Code:	1-Non Preserved	2-HCI 3-H2SO4	4-HNO3 5-NaOH 6-M	ethanol 7-Na2S2O3 8-ZnAce, NaOH	9-NH4CI 10-DI H20	0 11-Other*	11				+					
					Number	of Containers per	Sample:	1									
		Laboratory	y Use Only		Sampled by : DJD					. <u> </u>							
Coole	r Present:				Comments:	Please sp	ecify "Othe	er" pres	ervative	and co	ntainer	s type	s in this	space	3		
Seal	s Intact:				National Grid Project, Use Man	ual Soxhlet Extract	ion per EPA	Metho	d 3540, ⁻	1=ice/he	exane						
Cooler T	emperature:	35	°C		Homogenize Sample TSCA Re	quirements, Provid	e Full Data	Packag	e, wipe a	area 1000			(0)	- •	D.1.0	T i	
Re	elinquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By	y: (Signature	, Date	& Time)			eived E	sy: (Sigr	ature,	Date 8	Time)
Paniel Summer 16/2020 Jonach				he 11:20 1/2	which_	h k	5 50	- کر د	$\downarrow l$		L	<u>Ihl</u>	70	150	<u>)</u>		
f 12	elinquished by:	(Signature, Da	ate & Time)	Réceived By:	(Signature, Date & Time)	Relinquished By	y: (Signature	, Date	& Time)		Rec	eived E	By: (Sigr	ature,	Date 8	Time)

ويبتكر ويجود والإكريك وكالتنا كمكافيتكر

المراجعين والمربقين والمربقين والمعالمين والتكار ويروا والتعمير المعالية والمعا



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F) ESS Laboratory Work Order Number: 20F0221

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 5:59 pm, Jun 11, 2020

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0221

SAMPLE RECEIPT

The following samples were received on June 04, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
20F0221-01	WS-02-03	Wipe	8082A
20F0221-02	WS-02-04	Wipe	8082A
20F0221-03	WS-03-03	Wipe	8082A
20F0221-04	WS-03-04	Wipe	8082A
20F0221-05	WS-05-01	Wipe	8082A
20F0221-06	WS-05-02	Wipe	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0221

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0221

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-02-03 Date Sampled: 05/29/20 10:00 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0221 ESS Laboratory Sample ID: 20F0221-01 Sample Matrix: Wipe Units: ug/Wipe Analyst: DMC Prepared: 6/8/20 19:50

Analyte Aroclor 1016	Results (MRL)	<u>MDL</u>	Method 8082A	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	<u>Batch</u> DF00813
Aroclor 1221	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
Aroclor 1232	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
Aroclor 1242	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
Aroclor 1248	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
Aroclor 1254	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
Aroclor 1260	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
Aroclor 1262	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
Aroclor 1268	ND (1.0)		8082A		1	06/09/20 19:46	D0F0172	DF00813
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		110 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		92 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>97 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-02-04 Date Sampled: 05/29/20 10:05 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0221 ESS Laboratory Sample ID: 20F0221-02 Sample Matrix: Wipe Units: ug/Wipe Analyst: DMC Prepared: 6/8/20 19:50

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:05	Sequence D0F0172	<u>Batch</u> DF00813
Aroclor 1221	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
Aroclor 1232	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
Aroclor 1242	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
Aroclor 1248	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
Aroclor 1254	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
Aroclor 1260	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
Aroclor 1262	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
Aroclor 1268	ND (1.0)		8082A		1	06/09/20 20:05	D0F0172	DF00813
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		108 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		94 %		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		95 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-03-03 Date Sampled: 05/29/20 10:10 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0221 ESS Laboratory Sample ID: 20F0221-03 Sample Matrix: Wipe Units: ug/Wipe Analyst: DMC Prepared: 6/8/20 19:50

Analyte Aroclor 1016	Results (MRL) ND (1.0)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:24	Sequence D0F0172	<u>Batch</u> DF00813
Aroclor 1221	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
Aroclor 1232	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
Aroclor 1242	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
Aroclor 1248	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
Aroclor 1254	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
Aroclor 1260	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
Aroclor 1262	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
Aroclor 1268	ND (1.0)		8082A		1	06/09/20 20:24	D0F0172	DF00813
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		107 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>93 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		91 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		94 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-03-04 Date Sampled: 05/29/20 10:15 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0221 ESS Laboratory Sample ID: 20F0221-04 Sample Matrix: Wipe Units: ug/Wipe Analyst: DMC Prepared: 6/8/20 19:50

Analyte Aroclor 1016	Results (MRL) ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 20:43	Sequence D0F0172	<u>Batch</u> DF00813
Aroclor 1221	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
Aroclor 1232	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
Aroclor 1242	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
Aroclor 1248	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
Aroclor 1254	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
Aroclor 1260	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
Aroclor 1262	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
Aroclor 1268	ND (1.0)		8082A		1	06/09/20 20:43	D0F0172	DF00813
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		109 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		89 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		92 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-05-01 Date Sampled: 05/29/20 10:20 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0221 ESS Laboratory Sample ID: 20F0221-05 Sample Matrix: Wipe Units: ug/Wipe Analyst: DMC Prepared: 6/8/20 19:50

Analyte Aroclor 1016	Results (MRL)	MDL	Method 8082A	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch DF00813
Aroclor 1221	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
Aroclor 1232	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
Aroclor 1242	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
Aroclor 1248	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
Aroclor 1254	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
Aroclor 1260	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
Aroclor 1262	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
Aroclor 1268	ND (1.0)		8082A		1	06/09/20 21:02	D0F0172	DF00813
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		104 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		91 %		30-150				
Surrogate: Tetrachloro-m-xylene		85 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>89 %</i>		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-05-02 Date Sampled: 05/29/20 10:25 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 20F0221 ESS Laboratory Sample ID: 20F0221-06 Sample Matrix: Wipe Units: ug/Wipe Analyst: DMC Prepared: 6/8/20 19:50

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 06/09/20 21:21	Sequence D0F0172	<u>Batch</u> DF00813
Aroclor 1221	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
Aroclor 1232	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
Aroclor 1242	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
Aroclor 1248	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
Aroclor 1254	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
Aroclor 1260	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
Aroclor 1262	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
Aroclor 1268	ND (1.0)		8082A		1	06/09/20 21:21	D0F0172	DF00813
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		107 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>89 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0221

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated	Biphenyls	(PCB)					
		•			. ,					
Batch DF00813 - 3540C										
Blank										
Aroclor 1016	ND	1.0	ug/Wipe							
Aroclor 1016 [2C]	ND	1.0	ug/Wipe							
Aroclor 1221	ND	1.0	ug/Wipe							
Aroclor 1221 [2C]	ND	1.0	ug/Wipe							
Aroclor 1232	ND	1.0	ug/Wipe							
Aroclor 1232 [2C]	ND	1.0	ug/Wipe							
Aroclor 1242	ND	1.0	ug/Wipe							
Aroclor 1242 [2C]	ND	1.0	ug/Wipe							
Aroclor 1248	ND	1.0	ug/Wipe							
Aroclor 1248 [2C]	ND	1.0	ug/Wipe							
Aroclor 1254	ND	1.0	ug/Wipe							
Aroclor 1254 [2C]	ND	1.0	ug/Wipe							
Aroclor 1260	ND	1.0	ug/Wipe							
Aroclor 1260 [2C]	ND	1.0	ug/Wipe							
Aroclor 1262	ND	1.0	ug/Wipe							
Aroclor 1262 [2C]	ND	1.0	ug/Wipe							
Aroclor 1268	ND	1.0	ug/Wipe							
Aroclor 1268 [2C]	ND	1.0	ug/Wipe							
Surrogate: Decachlorobiphenyl	0.533		ug/Wipe	0.5000		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.459		ug/Wipe	0.5000		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.433		ug/Wipe	0.5000		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.450		ug/Wipe	0.5000		90	30-150			
LCS										
Aroclor 1016	10.2	1.0	ug/Wipe	10.00		102	40-140			
Aroclor 1016 [2C]	8.6	1.0	ug/Wipe	10.00		86	40-140			
Aroclor 1260	10.2	1.0	ug/Wipe	10.00		102	40-140			
Aroclor 1260 [2C]	8.8	1.0	ug/Wipe	10.00		88	40-140			
Surrogate: Decachlorobiphenvl	0.544		ug/Wipe	0.5000		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.465		ug/Wipe	0.5000		93	30-150			
Surrogate: Tetrachloro-m-xvlene	0.454		ug/Wipe	0.5000		91	30-150			
Surrogate: Tetrachloro-m-xvlene [2C]	0.442		ug/Wipe	0.5000		88	30-150			
LCS Dup										
Aroclor 1016	10.2	1.0	ug/Wipe	10.00		102	40-140	0.7	30	
Aroclor 1016 [2C]	8.5	1.0	ug/Wipe	10.00		85	40-140	0.4	30	
Aroclor 1260	10.2	1.0	ug/Wipe	10.00		102	40-140	0.2	30	
Aroclor 1260 [2C]	9.0	1.0	ug/Wipe	10.00		90	40-140	2	30	
Surrogate: Decachlorobinhenvl	0.540		ug/Wipe	0.5000		108	30-150			
Surrogate: Decachlorobinhenvl [2C]	0.472		ug/Wipe	0.5000		94	30-150			
Surrogate: Tetrachloro-m-xvlene	0.446		ug/Wipe	0.5000		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.440		ug/Wipe	0.5000		88	30-150			
- /										



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0221

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probably Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 20F0221

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Coneco Engineers, Scientists & Surv - KPB/TB	ESS Project ID:20F0221	_
Shipped/Delivered Via: ESS Courier	Project Due Date: 6/11/2020	
	Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA	6. Does COC match bottles?	Yes
2. Were custody seals present? No.	7. Is COC complete and correct?	Yes
3. Is radiation count <100 CPM? Yes	8. Were samples received intact?	Yes
4 Is a Cooler Present?	9. Were labs informed about <u>short holds & rushes</u> ?	Yes / No (NA)
Temp: <u>1.2</u> Iced with: <u>Ice</u>	10. Were any analyses received outside of hold time?	Yes / No
5. Was COC signed and dated by client? Yes		
11. Any Subcontracting needed? Yes / No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received?a. Air bubbles in aqueous VOAs?b. Does methanol cover soil completely?	Yes / No Yes / No Yes / No / NA
13. Are the samples properly preserved? Yes No a. If metals preserved upon receipt: Date: Date: b. Low Level VOA vials frozen: Date: Date:	Time: By: Time: By:	
Sample Receiving Notes:		
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes / No Yes / No Time: By:	
Sample Container Proper Air Bubbles Sufficient Number ID Container Present Volume	Container Type Preservative Record pH (Cya Pestici	nide and 608 des)
1 49873 Yes N/A Yes	2 oz. Jar Hexane	
2 49874 Yes N/A Yes	2 oz. Jar Hexane	
3 49875 Yes N/A Yes	2 oz. Jar Hexane	
4 49876 Yes N/A Yes	2 oz. Jar Hexane	
5 49877 Yes N/A Yes		
6 49676 Tes IN/A Tes		
2nd Review Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled? Are all Hex Chrome stickers attached? Are all QC stickers attached? Are VOA stickers attached if bubbles noted?	Initials Yes / No Yes / No / NA Yes / No / NA Yes / No / NA Yes / No / NA	
Completed By: Reviewed By:	Date & Time: 6/4/20 1912	

Page 1/1

ESS L	aborator	у		C	ESS Lab # 2040221													
Division of	Thielsch Eng	ineering, Inc.		Turn Time	(5-Day) Rush		Reporti	ng ,	<u> </u>	<u> </u>	h	<u> </u>			4			
185 France	es Avenue, Cr	anston RI 029	10	Regulatory State	Rhode Island		Limit	<u> </u>	25	M	gVCa_							
Tel. (401)	461-7181 Fa	x (401) 461-44	86	is th	is project for any of the follo	wing?:	Elector	nic 🛛	Limit Ch	ecker (ЛIJ		□ Stan	dard Exc	el			
www.essia	poratory.com	Moany Nama				KGP	Deliveral	bles 🗗	Other (F	Please Sp	ecify -→)	PDF			TE		TT	
Lloner	o Engin	ees and	signish	5675.F	aunacot Conhol house	+ thouton AUC												
1 Kab	c lath	ntact Person		4 Eats	Stref Address Paulucket, RI			20										
2	City	<u> </u>	AI SI	late /	Zip Code	PO#	lieu	100									11	
L Brid	HUGU	<u></u>	Mussachu	12/13	02324	5675.F	A A	1										
508	-697-31	1			Jacuazelis, Mzoller, PL	don Kloffis	1	2										
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	San	ple ID DDiFrances @Conec	10 0.Com	PLB										
	5/29/20	10:00 am	Grab	Wipp	WS-02	- 03		X										
2	, , . [10:05 am	Ì)	US-02	- 04		X										
37		10:10 am			WS-03	-03		x										
4		10:15 cm			WS-03	- 04		X										
5		10:20 cm			WS-05	-01		X										
\bigcirc	\checkmark	10:75 cm	\checkmark	V	WS-05	-02		x										
						<u> </u>												
Co	ntainer Type:	AC-Air Casse	tte AG-Amber Glas	ss B-BOD Bottle	C-Cubitainer G - Glass O-O	her P-Poly S-Steri	ile V-Vial	A6									\square	
Contai	ner Volume:	1-100 mL 2	-2.5 gal 3-250 mL	4-300 mL 5-500	0 mL 6-1L 7-VOA 8-2 oz	9-4 oz 10-8 oz	11-Other*	8					┦┼		+		\vdash	
Preser	vation Code:	1-Non Preserved	2-HCi 3-H2SO4 4	4-HNO3 5-NaOH 6-M	lethanol 7-Na2S2O3 8-ZnAce, NaC	H 9-NH4CI 10-DI H2O	11-Other		_		_		┦╌┥		+-+		┝╌┝	
					Numbe	r of Containers per s	Sample:										L	
		Laboratory	y Use Only		Sampled by: DJD/	166	Herg	ne	Pres	enc	el, li	izc	Arre	<u> </u>	<u>50 (M</u>	2		┛.
Cooler	Present:				Comments:	Please spe	cify "Othe	r" pres	ervativ	e and	contair	ners ty	pes in f	this sp	M.U.	17	(54 0	
Seals	Intact:				National origination	ect, use ma	NUG	Joxu	ler A	erin D.	uoric	Y	er	CPA N D.	L 2	, je	, , , , , , , , , , , , , , , , , , ,	<u>ار</u>
Cooler Te	mperature:	~0.1/1.2	°C		Keport dry Kay	At. humogenize	: samp	10,1	SCH	Ke	quite	m-on h 	3,10	(ya	-4 10	u voug	1~e ~	<u>گا</u>
Re	inquished by:	(Signature, Da	ate & Time)	Received By:	(Signature, Date & Time)	Relinquished By:	(Signature	, Date	& Time	<u> </u>	-/ \}	eceived	By: (S	ignatur /	e, Date		a)	-
Dam	Dian	an-6/4	1/20 1440	pro land	6/4/20 1440	Furhar 6	14/20	15	41			44	-4	<u>2/4/</u>	<u>K) (</u>	<u>54</u>		
Relinquished by: (Signature, Date & Time) // Received By: (Signature, Date				(Signature, Date & Time)	Relinquished By:	(Signature	, Date a	& Time)	R	eceived	I By: (S	ignatur	e, Date	& Tim	0)		
															•			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Katie Loftus Coneco Engineers, Scientists & Surveyors 4 First Street Bridgewater, MA 02324

RE: Pawtucket 1 Control House 6 Thorton Ave Pawtucket (5675.F.101.4) ESS Laboratory Work Order Number: 21J0812

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

REVIEWED By ESS Laboratory at 5:42 pm, Oct 29, 2021

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0812

SAMPLE RECEIPT

The following samples were received on October 22, 2021 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
21J0812-01	WS-01-02	Wipe	8082A
21J0812-02	WS-01-03	Wipe	8082A
21J0812-03	WS-02-05	Wipe	8082A
21J0812-04	WS-02-06	Wipe	8082A
21J0812-05	WS-03-05	Wipe	8082A
21J0812-06	WS-03-06	Wipe	8082A
21J0812-07	WS-04-02	Wipe	8082A
21J0812-08	WS-04-03	Wipe	8082A
21J0812-09	WS-04-04	Wipe	8082A
21J0812-10	WS-05-03	Wipe	8082A
21J0812-11	WS-05-04	Wipe	8082A
21J0812-12	WS-05-05	Wipe	8082A



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0812

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

- Semivolatile Organics Internal Standard Information
- Semivolatile Organics Surrogate Information
- Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0812

CURRENT SW-846 METHODOLOGY VERSIONS

Prep Methods

1010A - Flashpoint 6010C - ICP 6020A - ICP MS 7010 - Graphite Furnace 7196A - Hexavalent Chromium 7470A - Aqueous Mercury 7471B - Solid Mercury 8011 - EDB/DBCP/TCP 8015C - GRO/DRO 8081B - Pesticides 8082A - PCB 8100M - TPH 8151A - Herbicides 8260B - VOA 8270D - SVOA 8270D SIM - SVOA Low Level 9014 - Cyanide 9038 - Sulfate 9040C - Aqueous pH 9045D - Solid pH (Corrosivity) 9050A - Specific Conductance 9056A - Anions (IC) 9060A - TOC 9095B - Paint Filter MADEP 04-1.1 - EPH MADEP 18-2.1 - VPH

Analytical Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-01-02 Date Sampled: 10/21/21 09:54 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-01 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	Results (MRL) ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 4:33	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 4:33	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		90 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		86 %		30-150				
Surrogate: Tetrachloro-m-xylene		93 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>95 %</i>		30-150				



J Division of Thielsch Engineering, Inc. **BAL** Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-01-03 Date Sampled: 10/21/21 11:18 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-02 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 4:52	Sequence D1J0420	Batch DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 4:52	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>92 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		84 %		30-150				
Surrogate: Tetrachloro-m-xylene		88 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		91 %		30-150				



J Division of Thielsch Engineering, Inc. **BAL** Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-02-05 Date Sampled: 10/21/21 10:06 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-03 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 5:11	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 5:11	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>94 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



LABORATORY

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-02-06 Date Sampled: 10/21/21 10:52 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-04 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 5:31	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 5:31	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>92 %</i>		30-150				



LABORATORY

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-03-05 Date Sampled: 10/21/21 10:29 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-05 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte	Results (MRL)	MDL	Method	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 5:50	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>97 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		<i>93 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene		101 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		103 %		30-150				



ABODALODY L'USC

J Division of Thielsch Engineering, Inc. **BAL** Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-03-06 Date Sampled: 10/21/21 10:34 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-06 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 6:09	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 6:09	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>95 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>98 %</i>		30-150				



LABORATORY

Division of Thielsch Engineering, Inc.

BAL Laboratory

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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-04-02 Date Sampled: 10/21/21 10:10 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-07 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 6:29	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 6:29	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		94 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		90 %		30-150				
Surrogate: Tetrachloro-m-xylene		94 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				


J Division of Thielsch Engineering, Inc. BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-04-03 Date Sampled: 10/21/21 10:40 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-08 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 6:48	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 6:48	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		92 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		88 %		30-150				
Surrogate: Tetrachloro-m-xylene		94 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		<i>96 %</i>		30-150				



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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-04-04 Date Sampled: 10/21/21 11:02 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-09 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

<u>Analyte</u> Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 7:08	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 7:08	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>93 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		89 %		30-150				
Surrogate: Tetrachloro-m-xylene		90 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		93 %		30-150				



LABORATORY

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BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-05-03 Date Sampled: 10/21/21 10:18 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-10 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 7:27	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 7:27	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		<i>95 %</i>		30-150				
Surrogate: Decachlorobiphenyl [2C]		92 %		30-150				
Surrogate: Tetrachloro-m-xylene		<i>99 %</i>		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		102 %		30-150				



LABORATORY

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CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-05-04 Date Sampled: 10/21/21 10:20 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-11 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	<u>Results (MRL)</u> ND (1.0)	<u>MDL</u>	<u>Method</u> 8082A	<u>Limit</u>	<u>DF</u> 1	<u>Analyzed</u> 10/27/21 7:46	Sequence D1J0420	<u>Batch</u> DJ12508
Aroclor 1221	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 7:46	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		89 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		87 %		30-150				
Surrogate: Tetrachloro-m-xylene		94 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		97 %		30-150				



LABORATORY

Division of Thielsch Engineering, Inc.

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket Client Sample ID: WS-05-05 Date Sampled: 10/21/21 11:07 Percent Solids: N/A Initial Volume: 1 Final Volume: 10 Extraction Method: 3540C

ESS Laboratory Work Order: 21J0812 ESS Laboratory Sample ID: 21J0812-12 Sample Matrix: Wipe Units: ug/100cm² Analyst: JLG Prepared: 10/25/21 14:00

Analyte Aroclor 1016	Results (MRL)	MDL	Method 80824	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	Batch
Aroclor 1221	ND (1.0) ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
Aroclor 1232	ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
Aroclor 1242	ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
Aroclor 1248	ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
Aroclor 1254	ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
Aroclor 1260	ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
Aroclor 1262	ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
Aroclor 1268	ND (1.0)		8082A		1	10/27/21 8:06	D1J0420	DJ12508
		%Recovery	Qualifier	Limits				
Surrogate: Decachlorobiphenyl		82 %		30-150				
Surrogate: Decachlorobiphenyl [2C]		79 %		30-150				
Surrogate: Tetrachloro-m-xylene		80 %		30-150				
Surrogate: Tetrachloro-m-xylene [2C]		84 %		30-150				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0812

Quality Control Data

			11.9	Spike	Source	0/ 550	%REC	000	RPD	0
Anaiyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
		8082A Poly	chlorinated E	Biphenyls	(PCB)					
Batch DJ12508 - 3540C										
Blank										
Aroclor 1016	ND	1.0	ug/100cm ²							
Aroclor 1016 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1221	ND	1.0	ug/100cm ²							
Aroclor 1221 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1232	ND	1.0	ug/100cm ²							
Aroclor 1232 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1242	ND	1.0	ug/100cm ²							
Aroclor 1242 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1248	ND	1.0	ug/100cm ²							
Aroclor 1248 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1254	ND	1.0	ug/100cm ²							
Aroclor 1254 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1260	ND	1.0	ug/100cm ²							
Aroclor 1260 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1262	ND	1.0	ug/100cm ²							
Aroclor 1262 [2C]	ND	1.0	ug/100cm ²							
Aroclor 1268	ND	1.0	ug/100cm ²							
Aroclor 1268 [2C]	ND	1.0	ug/100cm ²							
Surrogate: Decachlorobiphenyl	0.474		ug/100cm ²	0.5000		95	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.453		ug/100cm ²	0.5000		91	30-150			
Surrogate: Tetrachloro-m-xylene	0.490		ug/100cm ²	0.5000		<i>98</i>	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.499		ug/100cm ²	0.5000		100	30-150			
LCS										
Aroclor 1016	8.9	1.0	ug/100cm ²	10.00		89	40-140			
Aroclor 1016 [2C]	8.6	1.0	ug/100cm ²	10.00		86	40-140			
Aroclor 1260	9.6	1.0	ug/100cm ²	10.00		96	40-140			
Aroclor 1260 [2C]	8.6	1.0	ug/100cm ²	10.00		86	40-140			
Surrogate: Decachlorobiphenyl	0.463		ug/100cm ²	0.5000		93	30-150			
Surrogate: Decachlorobiphenvl [2C]	0.439		ug/100cm ²	0.5000		88	30-150			
Surrogate: Tetrachloro-m-xylene	0.469		ug/100cm ²	0.5000		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.458		ug/100cm ²	0.5000		92	30-150			
LCS Dup										
Aroclor 1016	9.3	1.0	ug/100cm ²	10.00		93	40-140	4	30	
Aroclor 1016 [2C]	9.0	1.0	ug/100cm ²	10.00		90	40-140	5	30	
Aroclor 1260	9.9	1.0	ug/100cm ²	10.00		99	40-140	4	30	
Aroclor 1260 [2C]	9.0	1.0	ug/100cm ²	10.00		90	40-140	5	30	
Surrogate: Decachlorobiphenyl	0.483		ug/100cm ²	0.5000		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.467		ug/100cm ²	0.5000		<i>93</i>	30-150			
Surrogate: Tetrachloro-m-xylene	0.488		ug/100cm ²	0.5000		98	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.477		ug/100cm ²	0.5000		95	30-150			



BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0812

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD LOQ	Limit of Detection Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg NR	Results reported as a mathematical average. No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units



BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: Coneco Engineers, Scientists & Surveyors Client Project ID: Pawtucket 1 Control House 6 Thorton Ave Pawtucket

ESS Laboratory Work Order: 21J0812

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

> Pennsylvania: 68-01752 http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: <u>Coneco Engineers, Scientists & Surv - KPB/TB</u> Shipped/Delivered Via: <u>ESS Courier</u>	ESS Project ID: 21J0812 Date Received: 10/22/2021 Project Due Date: 10/29/2021 Days for Project: 5 Day	
1. Air bill manifest present? No Air No.: NA 2. Were custody seals present? No 3. Is radiation count <100 CPM? Yes 4. Is a Cooler Present? Yes Temp: 2.1 Iced with: Ice 5. Was COC signed and dated by client? Yes	 6. Does COC match bottles? 7. Is COC complete and correct? 8. Were samples received intact? 9. Were labs informed about <u>short holds & rushes</u>? 10. Were any analyses received outside of hold time? 	Yes Yes Yes / No (NA) Yes / No
11. Any Subcontracting needed? Yes No ESS Sample IDs: Analysis: TAT:	12. Were VOAs received? a. Air bubbles in aqueous VOAs? b. Does methanol cover soil completely?	Yes / 😡 Yes / No Yes / No / NA
 13. Are the samples properly preserved? a. If metals preserved upon receipt: b. Low Level VOA vials frozen: Date: Date: Date: 	Time: By: Time: By:	
14. Was there a need to contact Project Manager? a. Was there a need to contact the client? Who was contacted?	Yes / No Yes / No Time: By:	

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	221469	Yes	N/A	Yes	2 oz. Jar	Hexane	
2	221470	Yes	N/A	Yes	2 oz. Jar	Hexane	
3	221471	Yes	N/A	Yes	2 oz. Jar	Hexane	
4	221472	Yes	N/A	Yes	2 oz. Jar	Hexane	
5	221473	Yes	N/A	Yes	2 oz. Jar	Hexane	
6	221474	Yes	N/A	Yes	2 oz. Jar	Hexane	
7	221475	Yes	N/A	Yes	2 oz. Jar	Hexane	
8	221476	Yes	N/A	Yes	2 oz. Jar	Hexane	
9	221477	Yes	N/A	Yes	2 oz. Jar	Hexane	
10	221478	Yes	N/A	Yes	2 oz. Jar	Hexane	
11	221479	Yes	N/A	Yes	2 oz. Jar	Hexane	
12	221480	Yes	N/A	Yes	2 oz. Jar	Hexane	

2nd Review

Were all containers scanned into storage/lab? Are barcode labels on correct containers? Are all Flashpoint stickers attached/container ID # circled?

Initials_ 6 / No Yes / No / NA

Client: Coneco Engineers, Scientists & Surv - KPB/TB	_	ES\$ Project ID:	21J0812
	-	Date Received:	10/22/2021
Are all Hex Chrome stickers attached?	Yes / N	No / NA	
Are all QC stickers attached?	Yes / N	No/NJA	
Are VOA stickers attached if bubbles noted?	Yes / N	No / NA	
		v	
Completed		1	
Ву:	Date & Time:	idzeler	1626
Reviewed		τ	
By: aylor hills	_ Date & Time:	10/22101	1682

ESS Laboratory Sample and Cooler Receipt Checklist

TIC		185 Fra	aces Avenue		CHAI	IN OF CU	STODY		ESS	Lab	# 2	2175	0817		Page	=1	l of	2
		Cransto	n, RI 02921	Turn Time (Days)	□>5 ⊡5	□4 □3	D 2 D 1	Same Day		ELEC	TRON	IC DEL	IVERAB	LES (E	inal F	Report	s are P	DF)
		Phone: 4	01-461-7181	Regulatory State:	RI	Criteria	: <0.5 mg/kg		ΩI	.imit C	hecker	Ģ	State For	ms	шE	QuIS		
		Fax: 40	1-461-4486		Is this pro	ject for any of th	e following?:		ĺ⊡ e	Excel			Hard Cop	уу	п E	nviro I	Data	
LADORAR	<u>er</u>	www.essla	boratory.com	CT RCP	🖾 МА МСР	RGP	Permit	□401 WQ		LP-Lil	ce Packa	ge □	Other (Sp	pecify) -	→			
	CLIENT IN	FORMAT	TION		PROJI	ECT INFORM	MATION				R	EQUE	STED A	NAL	YSES	\$		
Client	: Coneco Engi	neers & Scier	ntists, Inc	Project Name:	Pawtucket Co	ontrol House		Client										
Address	4 First Street			Project Location:	: 6 Thorton Str	eet, Pawtucket, I	स	acknowledges										otal
	Bridgewater,	Massachuset	ts 02324	Project Number:	5675.F.101.4			is compliant										Nug
Phone	: 508-697-319	1		Project Manager:	Katie Loftus			with all EPA /	82			Ì						nber
Email	dkearnev. cma	acuch, kloftus,		Bill to:	Environmenta	al AP		State	A 80						з. 1			e e
Distribution List:	jaevazelis@co	oneco.com		PO#:	5675.F.101.4			regulatory	E									Bott
	Collection	Collection		Quote#:				programs	3s by									<u>s</u>
ESS Lab ID	Date	Time	Sample Type	Sample Matrix		Sa	mple ID		PCI									
1	10/21/2021	0954	Grab	Wipe		· W	/S-01-02		х									1
2	10/21/2021	1118	Grab	Wipe		W	/S-01-03		X									1
3	10/21/2021	1006	Grab	Wipe		W	/S-02-05		X				·					1
4	10/21/2021	1052	Grab	Wipe		W	/S-02-06		X									1
5	10/21/2021	1029	Grab	Wipe		W	/S-03-05		Х							T		1
6	10/21/2021	1034	Grab	Wipe		W	/S-03-06		Χ									1
ר	10/21/2021	1010	Grab	Wipe		W	/S-04-02		х									1
8	10/21/2021	1040	Grab	Wipe		W	/S-04-03		x			н н Н						1
9	10/21/2021	1102	Grab	Wipe		W	/S-04-04		x									. 1
10	10/21/2021	1018	Grab	Wipe		W	/S-05-03		х									• 1
Сот	ntainer Type:	AC-Ai	r Cassette AG-Amb	er Glass B-BOD Bot	tle C-Cubitain	er J-Jar O-Oti	her P-Poly S-S	terile V-Vial	AG	a						$\downarrow \downarrow$	\perp	
Conta	iner Volume:	1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	-500 mL 6-1L	7-VOA 8-2 oz	z 9-4 oz 10-8 o	z 11-Other*	18									
Preser	vation Code:	1-Non Pre	served 2-HCI 3-H2SC	4 4-HNO3 5-NaOH 6	5-Methanol 7-Na2	2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-D	IH2O 11-Other*	11							<u> </u>	<u> </u>	
	Sampled by :							ieeds to be fill	ea o	ut ne	atiy a	nd coi	npietei	y for	on t	me c	lenve	ry.
Lab	oratory Use C	Jnly	Comments:	* Please specify "C	Other" preser	vative and cont	ainers types in t	is space	All	sampl	es subr	nitted a	ire subje	ct to	D	issolve	d Filtr	ation
Cooler Temp	perature (°C):	2.1	*National Grid Pro	gect* Pro	A Method 3540	e I I = 1ce	Homogenize sa SCA Requireme	imples nts	ESS	Labo	ratory's	payme	ent terms	; and				
		1 Ce	Please provide full	data package	Hexane p	reserved, wipe ar	$rea = 100 \text{ cm}^2$				cond	litions.			· [L	Lab F	ʻilter
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		Phone: 4	401-461-7181	Regulatory State:	RI	Criteria:	: <0.5 mg/kg		U	Limit (Checke	r	🗆 Sta	ate For	ns	D EC)uIS		
	305 -	Fax: 40)1-461 - 4486		Is this pro	oject for any of th	e following?:		Ū.	Excel			□ Ha	urd Cop	у	🗆 En	viro D	ata	
INDORAL	2Y	<u>www.essla</u>	boratory.com	□ CT RCP	□МА МСР	RGP	Permit	□ 401 WQ		CLP-L	ike Pao	kage	□ Of	her (Sp	ecify)	→			
	CLIENT IN	FORMAT	TION		PROJ	ECT INFORM	MATION					REQ	UEST	ED A	NAL	YSES			
Client	: Coneco Engi	neers & Scier	ntists, Inc	Project Name:	P	awtucket Control	House	Client								:	·		
Address	: 4 First Street			Project Location:	6 Th	orton Street, Paw	tucket, RI	acknowledges											12
	1110004000			Project Number:		5675.F.101.4	4	that sampling											N
Phone	: 508-697-319	1		Project Manager:		Katie Loftus	s	with all EPA /	22										mbe
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Distribution	dkearney, cmac	ich, kloftus, jae	vazelis@coneco.com	PO#:		5675.F.101.4	4	regulatory	EP∕										Bot
List:				Quote#:				programs	à										tles
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix		Sa	mple ID		PCB										
11	10/21/2021	1020	Grab	Wipe		W	/S-05-04		X										1.
12	10/21/2021	1107	Grab	Wipe		w	'S-05-05		x										· 1
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Conta	iner Volume:	1-100	mL 2-2.5 gal 3-2	50 mL 4-300 mL 5-	-500 mL 6-1L	7-VOA 8-2 oz	: 9-4 oz 10-8 oz	z 11-Other*	-21	<u>5</u> 40							\square	$ \rightarrow $	_ 2
Preser	vation Code:	1-Non Pre	eserved 2-HCl 3-H2SC	04 4-HNO3 5-NaOH 6	-Methanol 7-Na	2S2O3 8-ZnAce, Na	OH 9-NH4CI 10-D	PIH2O 11-Other*	11										
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