

Prepared for

NC STATE UNIVERSITY

North Carolina State University

c/o

Kilpatrick Townsend & Stockton LLP

4208 Six Forks Road, Suite 1400 Raleigh, North Carolina 27609

INDOOR ENVIRONMENTAL INVESTIGATION REPORT SECOND PHASE NORTH CAROLINA STATE UNIVERSITY POE HALL, RALEIGH, NORTH CAROLINA

Prepared by



Geosyntec Consultants of NC, P.C.

Geosyntec Consultants of NC, P.C. 2501 Blue Ridge Road, Suite 430 Raleigh, North Carolina 27607

Project Number GN10263

June 3, 2024



CERTIFICATION PAGE

INDOOR ENVIRONMENTAL INVESTIGATION REPORT - SECOND PHASE

NORTH CAROLINA STATE UNIVERSITY – POE HALL 2310 KATHARINE STINSON DR. RALEIGH, NORTH CAROLINA

Prepared by:	Reviewed by:

Marc Webb, Ph.D.

Senior Staff Professional

Marc Webb

Prepared by:

Todd N. Creamer, P.G.

Senior Principal

Raymond Cowan, CIH Senior Industrial Hygienist

Reviewed by:

Jeffrey M. Ahrens, P.E.

Senior Principal

PROFESSIONAL GEOLOGIST SIGNATURE

I, <u>Todd N. Creamer</u>, a Licensed Professional Geologist for Geosyntec Consultants of NC, P.C., do certify that the information in this report is correct and accurate to the best of my knowledge.

Geosyntec Consultants of NC, P.C. is licensed to practice engineering in North Carolina. The certification number (Firm's License Number) is C-3500.

Todd M. Creamer, P.G.

Senior Principal Geologist

North Carolina P.G. License No. 2697

Expiration Date: June 30, 2025

Geosyntec Consultants of NC, P.C.

161 S. Lexington Avenue

Asheville, NC 28801

Telephone: (828) 374-8005



EXECUTIVE SUMMARY

Geosyntec Consultants of NC, P.C. (Geosyntec) was retained to investigate the presence of polychlorinated biphenyl (PCB) compounds in Poe Hall on the NCSU campus in Raleigh, North Carolina. Geosyntec is supporting NCSU's inquiry into the presence of PCBs in Poe Hall through a phased investigation. During the first phase of the assessment with the heating, ventilation and air conditioning (HVAC) systems off, PCB Aroclor-1262 was reported in surficial dust and indoor air samples collected on each floor in Poe Hall in an initial phase indoor environmental investigation report (Geosyntec, 2024). This Indoor Environmental Investigation Report—Second *Phase* builds on the first phase and describes Geosyntec's review of historical building documents and visual inspections of mechanical systems, bulk and air sampling results, other relevant data, and presents a revised conceptual site model (CSM). Data collected during the second phase of the assessment confirmed the presence of PCBs in building materials in Poe Hall, primarily Aroclor-1262 in a gold-colored sealant used inside HVAC supply ducts, which diffused into adjacent materials and adsorbed onto dust particles circulated by the HVAC systems. Each of the indoor air samples collected during the second phase with the HVAC system operating was below U.S. Environmental Protection Agency (USEPA) Exposure Levels for Evaluating PCBs in School Indoor Air for adults and children ages three (3) years and older. Based on the findings of this investigation, Geosyntec has made recommendations.

In January and March 2024, Geosyntec visually inspected air handling units (AHUs); hot, cold, and mixed air supply ducts; and return ducts and return air plenums that service floors 1 through 7. Geosyntec collected 111 bulk material samples from locations that were accessed during visual inspections on January 4 to 5 and March 5 to 8, 2024. Bulk samples included insulation materials (mostly collected from the inside of supply ducts), caulking, and air filters.

NCSU restarted Poe Hall's HVAC systems on April 16, 2024, in preparation to collect air samples. Geosyntec began air sampling eight days after the return of Poe Hall's HVAC systems to service, beginning April 24 and ending April 27, 2024. Geosyntec collected 17 indoor air samples and 1 outdoor air sample from the same locations in Poe Hall that were sampled during the initial investigation phase in December 2023.

PCB Aroclor-1262 was detected in all but one bulk sample (concentrations ranged from 0.91–53,000 parts per million). Gold-colored insulation sealant inside supply ducts was likely manufactured with PCBs, and therefore, was likely the primary source of Aroclor-1262 PCBs detected on surficial dust and air samples collected in Poe Hall.

PCB Aroclor-1262 was detected in each indoor air sample (concentrations ranged from 0.077- $0.155 \, \mu g/m^3$). Indoor air concentrations of Aroclor-1262 measured with HVAC systems on in April 2024 were about twice the concentrations measured when the HVAC systems were off in December 2023. All indoor air sampling results were below the USEPA Exposure Levels for Evaluating PCBs in School Indoor Air for adults and age cohorts three years and older.



The presence of PCBs in building materials at any concentration does not translate directly to either exceedance of a risk-based threshold or to exposure that is atypical. Data show that where PCBs were detected in surficial dust, nearly all results were below the USEPA PCB threshold for non-porous surfaces in high occupancy areas; and all results in air samples showed PCB concentrations below the USEPA Exposure Levels for Evaluating PCBs in School Indoor Air for adults and age cohorts 3 years and older both with the HVAC systems off and with them running.



TABLE OF CONTENTS

1.	Intro	Introduction										
	1.1.	Background	1									
	1.2.	Investigation Components	2									
	1.3.	Key Considerations										
		1.3.1. Building Preservation and Facilitating Interim Access	2									
		1.3.2. Briefings to the USEPA	3									
		1.3.3. Scope of this Phased Investigation	3									
		1.3.4. Making Building Characterization Data Public	4									
	1.4.	Summary of the Initial Phase Indoor Environmental Investigation Report	t 4									
	1.5.	Objectives for the Second Phase of Investigation	5									
2.		stigation Methods										
	2.1.	Historical Document Review	6									
	2.2.	Mechanical Systems Visual Inspection	6									
	2.3.	Bulk Sampling										
	2.4.	Air Sampling										
		2.4.1. Plan for HVAC Return to Service	9									
		2.4.2. Air Sampling Methods	9									
3.		Investigation Results and other Relevant Data										
	3.1.	Historical Document Review Results	11									
		3.1.1. Document Reviews	11									
		3.1.2. HVAC Zones and Air Circulation	11									
	3.2.	Mechanical Systems	12									
		3.2.1. Visual Inspection Results	12									
		3.2.2. Restart and Operation of HVAC Systems	15									
	3.3.	Bulk Sampling Results	16									
	3.4.	Air Sampling Results										
	3.5.	Summary of Other Relevant Data	18									
4.		cussion and Revised Conceptual Site Model										
		PCB Sources										
	4.2.	PCB Transport	20									

i



TABLE OF CONTENTS (Continued)

	4.3.	Considerations for Potential Human Exposure
5.	Reco	mmendations
6.	Refe	rences
		TABLES
Table 1 Table 2		Summary of Mechanical Systems Visual Inspection Summary of Detected PCB Aroclors in Bulk Material Samples
Table 3		Summary of Aroclor-1262 in Bulk Material Samples
Table 4		Summary of Aroclor-1262 in Select Bulk Materials per HVAC Zone
Table 5		Summary of Detected PCB Aroclors in Air samples, December 2023 and April 2024
Table 6		Summary of Aroclor-1262 Air Sample Results Organized by Building Zones, December 2023 and April 2024
		FIGURES
Figure	1	Site Location Map
Figure 2		Poe Hall HVAC Circulation Zones and Air Handler Unit Schematic
Figure 3		Conceptual Site Model for Air Circulation
Figure 4		Conceptual Site Model for Air Circulation, Perimeter Rooms, Floors 3-7
Figure :		Detail of HVAC Supply – Perimeter Rooms, Floors 3-7 Schematic Cutaway of Typical Supply Duct
Figures		
Č		
		APPENDICES
Append		1 • • • • • • • • • • • • • • • • • • •
Append	dix B	1 Example Photos of Duct Patchwork
Append		-
Append	dix B	Example Photos of Bulk Samples



TABLE OF CONTENTS (Continued)

Appendix C	Air Handling Unit (AHU) Restart Checklist and Summary
Appendix D	Bulk Sample Lab Report
Appendix E1	Air Sample Lab Report 2024
Appendix E2	Air Sample Field Data Sheets
Appendix F1	Summary of Other Relevant Data
Appendix F2	Table F1 - Analytical Results for Various Materials Collected by
	NCSU, 2018 and 2023
Appendix F3	Table F2 - Analytical Results for Surface Wipe Samples Collected by
	NCSU, 2023
Appendix F4	Table F3 - Analytical Results for Indoor Air Samples Collected by
	NCSU, 2023
Appendix G	Memorandum on PCB Toxicological and Epidemiological Literature



ACRONYMS AND ABBREVIATIONS

μg microgram(s)

μg/m³ micrograms per cubic meter

μg/cm² micrograms per square centimeter

AHU air handling unit

CFR Code of Federal Regulations

cm centimeter

CSM conceptual site model
ESML EMSL Analytical, Inc.

Geosyntec Geosyntec Consultants of NC, P.C.
HEPA high efficiency particulate air filter

HVAC heating, ventilation, and air conditioning

NCSU North Carolina State University

NIOSH National Institute for Occupational Safety and Health

PCB polychlorinated biphenyl

ppm parts per million

PUF polyurethane foam

RfD reference dose

TSCA Toxic Substances Control Act

Turner Environmental Consultants, LLC

USEPA United States Environmental Protection Agency

GN10263/CAR240086 i June 2024

1. INTRODUCTION

North Carolina State University's (NCSU's) outside counsel, Kilpatrick Townsend & Stockton LLP, retained Geosyntec Consultants of NC, P.C. (Geosyntec) on December 7, 2023, to provide environmental consulting services in a matter at Poe Hall on the NCSU campus in Raleigh, North Carolina (Figure 1). Geosyntec's consulting services focused on identifying the sources of polychlorinated biphenyl (PCB) compounds that could be accessible or could be made accessible to building occupants, understanding the distribution of accessible PCBs in the building, and presenting options to mitigate potential human exposure and options to remediate PCBs in accordance with applicable regulations. This second phase indoor environmental investigation report describes Geosyntec's review of historical building documents and visual inspections of mechanical systems, bulk and air sampling results, other relevant data, and presents a revised conceptual site model (CSM).

1.1. Background

Geosyntec understands that in the fall of 2023, NCSU collected samples of surficial dust, air, and some bulk materials from components of the heating, ventilation, and air conditioning (HVAC) systems for laboratory PCB analyses, in response to concerns from Poe Hall occupants about environmental conditions in the building. After receiving analytical results from the laboratory in November that reported detections of PCBs in some dust and some bulk samples, NCSU voluntarily closed Poe Hall and shut down the HVAC systems out of an abundance of caution, pending further investigation. Since NCSU closed the building, access has been restricted to authorized personnel. Authorized personnel include selected NCSU employees and contractors who are trained regarding hazards posed by hazardous materials, appropriate personal protective equipment, and other applicable subjects such as those included under the Occupational Safety and Health Administration's Hazardous Waste Operations and Emergency Response trainings.

Poe Hall is a seven-story academic building constructed in approximately 1971, when PCBs were widely used in building materials, such as paint, caulk, and sealants, across the United States. Historically, PCBs were used in materials to improve their chemical stability, flexibility, and flame resistance. PCBs are no longer produced or used in the United States. Before 1974, PCBs were used in capacitors, transformers, plasticizers, surface coatings, inks, adhesives, pesticide extenders, carbonless duplicating paper, and other products. After 1974, use of PCBs was restricted to the production of capacitors and transformers, and after 1979 PCBs were no longer used in the production of capacitors and transformers. The United States Environmental Protection Agency (USEPA) believes that there was potential widespread use of PCB-containing building materials in schools and other buildings built or renovated between about 1950 and 1979 (USEPA, 2015a), and that potentially tens of thousands of buildings may be affected in the United States (USEPA, 2021). Based on the age of construction and on preliminary data collected by NCSU in 2023, and by Geosyntec in 2023, Poe Hall was suspected to contain building materials manufactured with PCBs. Geosyntec is supporting NCSU's inquiry into the presence of PCBs in Poe Hall through a phased investigation and has written this Indoor Environmental Investigation Report-Second Phase to describe the sampling approach and report investigation findings. This second phase builds on the first phase conducted in December 2023 (Geosyntec, 2024) and incorporates historical data supplied by NCSU.

GN10263/CAR240086 1 June 2024

The investigation is focused on understanding the sources of PCBs that could be accessible to building occupants and the distribution of accessible PCBs in the building. The data from this investigation are being provided to the National Institute for Occupational Safety and Health (NIOSH) simultaneously with this report's release to support their ongoing Health Hazard Evaluation. As described in the preliminary CSM in the initial phase report (Geosyntec 2024), the primary mechanism by which building occupants potentially could be exposed to PCBs would be through contacting or respiring PCBs adsorbed to dust. That dust is conveyed and distributed by the building's six air handling units, which are combined into four HVAC circulation zones. The air handling units and HVAC circulation zones are depicted in the schematic shown on **Figure 2** and described in Sections 3 and 4.

1.2. <u>Investigation Components</u>

Between December 2023 and publication of this report, NCSU and Geosyntec have investigated the potential presence of PCBs inside Poe Hall in response to concerns raised by Poe Hall occupants. This investigation has included collecting and analyzing samples of bulk building materials, surficial dust, and air, reviewing historical building design and renovation plans, visually inspecting Poe Hall's mechanical HVAC systems, returning Poe Hall's HVAC systems to operation for indoor air testing, developing a CSM to put the data in context, communicating with the USEPA about testing methods and results, and presenting recommendations for next steps.

NCSU's Environmental Health and Safety Department conducted sampling between October and November 2023, and subsequent work from December 2023 through issuance of this report has been conducted by Geosyntec and its subcontractor Turner Environmental Consultants, LLC (Turner) who reviewed historical building records, supported the design of the second phase of investigation, opened ducts for visual inspections, and patched system ductwork post-inspection. Field work in 2024 included visually inspecting mechanical systems and sampling bulk building materials while the HVAC systems were turned off, followed by returning Poe Hall's HVAC systems to operation and then sampling indoor air.

1.3. Key Considerations

Four important considerations regarding this investigation are noted below.

1.3.1. Building Preservation and Facilitating Interim Access

USEPA recommends that all schools and other buildings built or renovated between about 1950 and 1979 implement practical actions to minimize potential building occupant exposure to PCBs. Recommendations include removing PCB-containing light ballasts and transformers and following best management practices, such as frequent indoor cleaning to reduce dust and residue using a damp cloth or mop, using vacuums with high efficiency particulate air (HEPA) filters and not sweeping with dry brooms for dusting. Prior to November 2023, as part of maintaining a healthy and safe environment on campus, NCSU reported that they were complying with each of these recommendations and best management practices at Poe Hall. Furthermore, since closure of the building, NCSU has not modified or altered any source or potential source of PCBs (*i.e.*, HVAC components, caulking, paint, light ballasts, etc.) other than sampling bulk materials for laboratory analysis. Collecting these samples will not impede future collection of samples by NCSU or other

authorized third parties. In addition, NCSU will consult with USEPA to assemble and weigh options to comply with 40 Code of Federal Regulations (CFR) part 761 (the regulation that governs the uses of PCBs), and work to address the needs of the university community regarding the Poe Hall matter.

In December 2023, NCSU hired Contaminant Control, Inc., (CCI) to clean surficial dust in a portion of the first floor (room 110, 1 a hallway and a bathroom) to facilitate completion of critical north campus computing center. Also in December 2023, CCI assisted NCSU to retrieve and clean individual personal items belonging to faculty and staff for return to their owners.

1.3.2. Briefings to the USEPA

Geosyntec informed the USEPA of planned field work prior to sample collection in December 2023. Geosyntec and NCSU briefed the USEPA about the CSM, bulk materials data and air analytical data in February, March, April and May 2024, and about plans to return Poe Hall's HVAC systems to service prior to turning HVAC systems back on.

1.3.3. Scope of this Phased Investigation

The purpose of collecting and analyzing surficial dust and indoor air samples during the initial phase conducted in December 2023 was to understand the conditions in Poe Hall at the time of sampling to support NCSU's decisions about building access for near-term activities such as maintenance, inspections, and emergency services. Additional near-term purposes included facilitating completion of a critical project to upgrade the Main Distribution Frame Room located on the first floor and retrieving items left behind by faculty and staff in their Poe Hall offices and classrooms. Therefore, the scope of investigation in December was limited to testing surfaces for dust that were likely to be touched in the near term (such as windowsills, desktops, computer components, books, and surfaces in rooms that house key building infrastructure such as elevator machine rooms), and excluded testing surfaces for dust that are inaccessible or otherwise unlikely to be touched (such as building materials above drop ceilings or floors behind bookshelves). Similarly, the scope of indoor air testing conducted in December 2023 was limited to collecting samples with the HVAC systems off because that was the condition under which near-term activities occurred. Information gleaned from this initial phase of work also supported investigation scoping for the second phase, as expressed in recommendations from the first phase report.

The purposes for collecting data in this second phase of investigation were to: address recommendations from the initial phase report (Geosyntec, 2024); generate sufficient information for NCSU to weigh options to comply with 40 CFR part 761; support NIOSH's ongoing efforts to understand potential historical exposure for former occupants of Poe Hall; and to support NCSU's long-term planning for Poe Hall. Another purpose was to characterize a snapshot of indoor air quality under an approximation of typical weekday building conditions; this characterization will help to inform NCSU's staffing and training plans to execute continuing near-term activities such as maintenance, inspections, emergency services, computing system operation, and further item retrieval. Therefore, the scope of the second phase of the investigation was targeted at sampling bulk materials for PCBs mostly in the HVAC systems, and at sampling indoor air for PCBs with

¹ Room 110 is serviced by an independent HVAC unit located on the ground outside of the first floor to meet room conditioning requirements of the computing system housed there.

the HVAC systems operating. Indoor air data offer a snapshot of PCBs in indoor air in Poe Hall today without occupancy, an approximation of conditions prior to November 2023 when the building was closed.

1.3.4. Making Building Characterization Data Public

NCSU directed that Geosyntec conduct a systematic and objective investigation of Poe Hall's indoor conditions, whose findings would be put into the public domain for the understanding of the university community. Scientific and engineering investigations take objective planning, with methodical and often iterative steps to develop representative datasets that can be interpreted by professionals. Relevant data collected inside Poe Hall recently and historically are herein presented and interpreted into a picture of current building conditions regarding PCBs.

1.4. Summary of the Initial Phase Indoor Environmental Investigation Report

Geosyntec collected surface wipe and indoor air samples in December 2023 and reported findings in February 2024 in an initial phase indoor environmental investigation report (Geosyntec, 2024). PCB Aroclor-1262 was reported in surficial dust and indoor air samples collected on each floor in Poe Hall at concentrations that were generally very low and almost entirely below USEPA exposure levels and thresholds. Nearly two-thirds of surficial dust samples had undetectable concentrations of PCBs at reporting limits well below the USEPA threshold for non-porous surfaces in high occupancy areas (10 μg/100 cm²), with only one detected result exceeding the threshold. For each of the 14 indoor air samples collected, all results were below USEPA exposure levels for evaluating PCBs in school indoor air for adults and children ages three (3) years and older (USEPA, 2015b). Air sample and wipe sample lab reports from the initial phase indoor environmental investigation are appended in **Appendix A1** and **Appendix A2**. Data from December 2023 air samples are also tabulated with data from this second phase as discussed in Section 3.

Based on the results of the first phase of the investigation, Geosyntec recommended additional steps and investigation activities, focused on developing a better understanding of PCB distribution and transport within Poe Hall. The recommendations are summarized as follows:

- 1. Review historical documents and visually inspect HVAC systems to identify building materials that may contain PCBs (potential sources). Collect and analyze bulk samples.
- 2. Revise the preliminary CSM.
- 3. Use the revised CSM to identify potential data gaps in our understanding of sources and transport of Aroclor-1262 to dust.
- 4. Conduct follow-up indoor air and surficial wipe sampling to evaluate air and surficial dust conditions in the building while the HVAC systems are operating.
- 5. Review relevant toxicological and epidemiological scientific studies on PCBs to support a current understanding of the potential human health effects associated with exposure.

Notably, surficial wipe samples were not collected during the second phase of investigation as indicated in recommendation #4 because surficial dust conditions in the building were already well

characterized by the December 2023 dataset. We expect that surficial dust sampled in December would reflect dust conditions in the building prior to building closure because surfaces had not been disturbed, except for the limited surface cleaning on the first floor, as described above. The short duration (approximately four weeks) that the HVAC systems had been off at the time surficial dust sample collection would not have diminished the effects of decades of typical activities in the building that affected dust accumulation (such as HVAC operation, routine housekeeping, daily activities by students, staff and faculty).

1.5. Objectives for the Second Phase of Investigation

This second phase of the investigation aimed to address recommendations from the first phase of the investigation (Geosyntec, 2024), to generate a dataset that NCSU can use to support regulatory compliance and long-term decision-making for Poe Hall, and to contribute to the NIOSH health hazard evaluation. The objectives for the second phase of the investigation were as follows:

- Follow up on information collected during the initial phase to examine Poe Hall's HVAC systems and the nature and extent of PCBs in Poe Hall that may be available to building occupants, as described in the preliminary CSM.
- Generate a data set that can form the basis of NCSU's plan for compliance with 40 CFR part 761, which, in turn, will inform NCSU's long-term plan for Poe Hall.
- Generate a data set that can support the health hazard evaluation ongoing by NIOSH to evaluate potential exposures for former occupants, as requested by NCSU.
- Summarize relevant toxicological and epidemiological scientific studies on PCBs to support a current understanding of the potential human health effects associated with exposure, including an evaluation of the strength and consistency of such associations with the relative magnitude of exposures.

2. INVESTIGATION METHODS

This section describes the documents that were reviewed to prepare for the second phase of investigation. It also describes the steps, equipment, and methods used for visually inspecting Poe Hall's mechanical ventilation systems and for collecting and analyzing bulk and air samples.

2.1. Historical Document Review

Turner and Geosyntec reviewed documents supplied by NCSU that spanned from Poe Hall's planning stage in the late 1960s through design, renovations, and periodic building assessments.

2.2. Mechanical Systems Visual Inspection

In January and March 2024, Turner and Geosyntec visually inspected the HVAC systems in Poe Hall, following up on information gathered from document reviews described above. Inspection locations included air handling units (AHUs); hot, cold, and mixed air supply ducts; and return ducts and return air plenums that service floors 1 through 7. Field crews used existing access points and installed temporary access points by cutting through duct metal and finished walls. Where temporary access points were used, NCSU cut into finished surfaces, and Turner cut into ductwork. Note that a generalized discussion and conceptual schematics of Poe Hall's HVAC system components are presented in Section 3; however, names and general locations of system components are used in this section for clarity and reproducibility. Visual inspection method descriptions below are grouped (floors 1 and 2 together, floors 3 through 7 together) in the same manner as Poe Hall's HVAC circulation zones are grouped (see **Figure 2**).

- Air Handling Unit Compartments: To inspect internal compartments of the AHU components, field crews removed access doors and metal panels to access filters, fan boxes, and other components. Components were inspected using a flashlight and photographed.
- Supply Ducts (Floors 1–2): To access cold and hot air supply ducts that service interior and perimeter rooms, field crews located ducts above ceiling tiles in classrooms, offices, and corridors upstream of mixing boxes. Crews cut approximately 8-by-8-inch holes into each duct using a drill, sheet metal nibbler and metal snips. Insulation materials obstructing the duct opening were cut using a utility knife with disposable blade and then placed on an adjacent surface with the sheet metal exterior on the surface and insulation placed on top of the sheet metal as it was within the ductwork. With duct interiors exposed, they were inspected using a flashlight and photographed. Mechanical rooms do not have drop ceilings, so ducts were accessed and inspected using a ladder and their interiors were accessed through existing duct access panels.
- Perimeter Room Supply Ducts (Floors 3–7): Perimeter rooms are serviced by supply ducts housed in the five, exterior concrete "rib" façade features that connect to mixing boxes and diffusers housed in windowsill casework. Crews removed panels on windowsill casework to access mixing boxes and cold supply ducts as described here. Hot air supply ducts required a separate access close to the ceiling, which is also described.
 - o **Perimeter Cold Air Supply Ducts (Floors 3–7)**: Once cold air supply ducts were accessed by removing the windowsill casework panel, an approximately 8-by-8-inch hole was cut using a drill, sheet metal nibbler and metal snips. Insulation

materials obstructing the duct opening were cut using a utility knife with a disposable blade and then placed on the windowsill with the sheet metal exterior on the surface and insulation placed on the sheet metal as it had been within the ductwork. The duct interior was inspected using a flashlight and photographed.

- o **Perimeter Hot Air Supply Ducts (Floors 3–7):** Hot air supply ducts were accessed using a ladder to reach pre-existing duct access panels upstream of elbows as indicated in project specifications. NCSU removed perforated metal panels on finished walls to gain access to existing hot air supply duct access panels. Crews then removed the access panels and inspected the duct interiors using a flashlight and photographed it.
- Interior Cold and Hot Air Supply Ducts (Floors 3–7): Interior rooms are serviced by separate hot and cold air supply ducts located above drop ceilings which connect to mixing boxes. A mixed air supply duct extends from the mixing boxes to each corresponding room. Using a ladder, crews accessed hot, cold and mixed air supply ducts by moving aside ceiling tiles and then cutting an approximately 8-by-8-inch hole into each duct using a drill, sheet metal nibbler, and metal snips. Insulation materials obstructing the duct opening were cut using a utility knife with a disposable blade and placed to the side as described in the perimeter ducts above. With duct interiors exposed, they were inspected using a flashlight and photographed. Additionally, crews accessed mixed air supply ducts at the diffusers using a ladder to reach and remove supply grille diffusers located high on the walls. With the diffuser removed, the duct interior was inspected using a flashlight and photographed.
- **Return Air Ducts:** Crews accessed return ducts using a ladder to access and remove return grille diffusers located high on walls. With the diffuser removed, the return duct interior was inspected using a flashlight and photographed. No interior insulation was present to inspect.

Following the visual inspection and sample collection, Turner sealed freshly exposed insulation edges with duct sealant (Design Polymerics Gray Duct Sealant, Model #KK0326), and patched the duct openings created with sheet metal panels, secured with screws. Example photos of duct patchwork are provided in **Appendix B1**. Other than samples sent to the laboratory for analysis, the small amount of waste materials generated during inspections were placed in a labelled drum in the building. The field crew documented the visual inspection in a daily field record and an electronic photolog.

2.3. Bulk Sampling

Bulk samples were collected from locations that were accessed during visual inspections of air handlers, ductwork and selected other materials on January 4 to 5 and March 5 to 8, 2024, as described below. Note that a generalized discussion and conceptual schematics of Poe Hall's HVAC system components are presented in Section 3; however, names and general locations of system components are used in this section for clarity and reproducibility. Sealants located outside ducts are herein referred to as "duct sealants," whereas sealants located inside of supply ducts are referred to as "insulation sealants."

- Pleated Return Air filters: Using gloved hands, one of 16 pleated air filters was removed from each of the 6 AHU returns. Filter material was removed from its cardboard and metal frame and placed into a labelled sample jar and weighed on a digital pocket scale. The filter frames were placed into a labeled drum within the building.
- Pocket Return Air Filters: Using gloved hands and a pair of scissors, a corner of one of 15 filter pockets was cut from the filter material and the cut-out was removed from the AHU return. The cutout filter material was loaded into a labelled sample jar and weighed on a digital pocket scale. The pocket filter that was cut during sampling was placed in a labelled plastic bag and stored on site by NCSU.
- **Insulation Sealants**: Using gloved hands and a utility knife with disposable blades, insulation sealants from the inside of supply air ducts were carefully cut away from fiberglass insulation fibers and insulation facing. Sealant was loaded into a labelled sample jar and weighed on a digital pocket scale.
- **Insulation Facing**: Using gloved hands and a utility knife with disposable blades, insulation facing from the inside of supply air ducts was cut away from fiberglass insulation fibers and insulation sealants. Insulation facing was loaded into a labelled sample jar and weighed on a digital pocket scale.
- **Insulation Fibers**: Using gloved hands and a utility knife with disposable blades, fiberglass insulation fibers from the inside of supply air ducts were cut away from insulation sealants and facing. Insulation fibers were loaded into a labelled sample jar and weighed on a digital pocket scale.
- **Insulation Adhesives**: Using gloved hands and a disposable razor blade, exposed insulation adhesives were scrapped from the AHU fan box floor and access panels to mixing boxes, then loaded into labelled samples jars and weighed on a digital pocket scale.
- **Supply Air Filters**: Using gloved hands, eight of more than 100 pleated air filters were removed from windowsill supply grilles in perimeter spaces. The filter material was removed from its cardboard and metal frame and placed into a labelled sample jar and weighed on a digital pocket scale. The filter frames were placed into a labeled drum within the building.
- **Duct Sealants**: Using gloved hands and a disposable razor blade, duct sealants on the exterior seams of supply air duct sections were scraped from duct sheet metal and loaded into labelled sample jars, then weighed on a digital pocket scale.
- Foamboard Construction Adhesive: Using gloved hands, construction adhesive on the wall from a detached foamboard wall panel in a mechanical room was chipped away from the wall and loaded into labelled sample jar and weighed on a digital pocket scale.
- Indoor Window Caulk: Using gloved hands, window caulk from perimeter rooms was cut with a utility knife with disposable blades and pried upwards at the edge of the windowsill. Then, the cut edge was firmly grasped with gloved fingers and pulled while simultaneously scrapping underneath with a screwdriver to remove from the windowsill.

Then, the window caulk was loaded into a labelled sample jar and weighed on a digital pocket scale.

At least 10 grams of each sampled bulk material were collected in 4-ounce glass jars provided by EMSL Analytical, Inc. (EMSL); the empty glass jars were used as tare weights for the digital pocket scale. To avoid cross-contamination, gloves were replaced and cutting tools were either replaced or cleaned with alcohol-moistened paper towels between samples. After collection, samples were shipped on ice under chain-of-custody protocol to EMSL of Cinnaminson, New Jersey, to be extracted by USEPA method SW846/3540C and analyzed for the nine common PCB Aroclors (Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, and Aroclor-1268) by USEPA method SW846/8082A.² Sample IDs included information to identify material types and locations. Two sample identification nomenclatures were used as follows: Bulk Sample-Sample Number-Material Type-Sample Room Number-Sample Date (B-##-TYPE-###-mmddyyyy) or Bulk Sample-Sample Number-Material Type-Type of Duct-Building Location-Sample Room Number-Sample Date (B-##-TYPE-TYPE-LOC-###-mmddyyyy). Field crews applied new duct sealant inside supply ducts to areas where insulation materials were cut during sample collection. Example photos of duct patchwork are provided in Appendix B1. The small amount of waste materials that were generated during sampling were placed in a labelled drum and stored inside the building.

2.4. <u>Air Sampling</u>

Collecting air samples involved first returning HVAC systems to operation and then deploying air sampling equipment.

2.4.1. Plan for HVAC Return to Service

After consulting with USEPA, NCSU restarted Poe Hall's HVAC systems on April 16, 2024 in preparation to collect air samples. Each AHU was inspected following a checklist, started, and then set to run continuously for approximately two days while the systems worked to achieve set points for flow and temperature, and to identify any component failures and repair them as needed. Existing filters were left in place and the original temperature set points for rooms that were input by faculty and staff remained. After the two-day startup period, systems were switched to operate in alternating "occupied" (4 a.m. to 11 p.m.) and "unoccupied" (11 p.m. to 4 a.m.) modes for another five to seven days when indoor air sampling would begin. The systems remained in alternating "occupied" and "unoccupied" modes through air sampling completion, the same modes used when Poe Hall was in service and fully occupied.

2.4.2. Air Sampling Methods

Geosyntec began air sampling eight days after the return of Poe Hall's HVAC systems to service, beginning April 24 and ending April 27, 2024. This separation between startup and sampling is appropriate for approximating the long-term conditions which all building occupants prior to

GN10263/CAR240086 9 June 2024

² In USEPA's Technical Guidance (2021), the agency recommends that all samples should be analyzed by EPA SW-846 Method 8082A for the nine common Aroclors and cautions that congener analysis by Clean Water Act Method 1668C may be used with EPA approval. However, "this method is not one of the determinative methods in the PCB regulations... and is more likely to experience laboratory background contamination which could lead to data interpretation problems." Therefore, samples for this investigation were analyzed for the 9 common Aroclors and not for congeners.

November 2023 had experienced. Sampling air at the time of HVAC startup would have included conditions in the building that rarely, if ever, existed while it was occupied prior to November 2023.

Geosyntec sampled indoor and outdoor air from the same locations in Poe Hall that were sampled in December 2023. Sample locations were selected to include multiple samples from each of the seven building floors and rooftop, from most types of rooms, and from each of the four HVAC circulation zones. Offices, classrooms, laboratories, a library, and a bathroom were sampled. These room types constitute the majority of rooms and square-footage of the building.

Air samples were collected by drawing air through a laboratory-provided low-volume sampling cartridge with a calibrated Gillian GilAir Plus air sampling pump. Sampling cartridges contained either a polyurethane foam (PUF) or a PUF/XAD® material and were attached to the continuousflow air sampling pump for a total of 24 hours. Both sorbent media are compatible with USEPA Method TO-10A. Air was sampled within the time window when the HVAC system operated in occupied mode (4 a.m. and 11 p.m.). Typically, each air sample was collected over 12 hours the first day and 12 hours the following day for a total sampling period of 24 hours. The pumps were paused, and sampling cartridges were sealed with aluminum foil overnight after the first 12-hour sampling period. Aluminum foil was removed from the sampling cartridges and pumps were restarted the following morning for the second 12-hour sampling period. The 24-hour sampling duration was selected to achieve laboratory reporting limits that were lower than the most stringent of USEPA's risk-based Exposure Levels for Evaluating PCBs in School Indoor Air (0.100 micrograms per cubic meter [µg/m³] for most PCBs). The PUF cartridges capture pollutants from air that is pumped through them. Each PUF sample cartridge was positioned on a tripod set approximately 1–2 meters above floor level with the intake pointed downward or horizontally. Pumps were placed on flat surfaces that were covered in plastic sheeting and connected to a PUF sampling cartridge with tubing. Air sample designations were generated as (A [for air sample] – unique sample identifier [01 through 15] – room # - date [MMDDYY]). After collection, samples were shipped on ice under chain-of-custody protocol to EMSL of Cinnaminson, New Jersey, to be extracted by USEPA Method TO-10A and analyzed for PCB Aroclors by USEPA Method TO-10A.

3. INVESTIGATION RESULTS AND OTHER RELEVANT DATA

This section describes the findings from reviewing historical documents, and results of the visual inspections and bulk and air sampling.

3.1. <u>Historical Document Review Results</u>

The findings from document reviews are presented, followed by a generalized description of HVAC zones and air circulation in Poe Hall.

3.1.1. Document Reviews

Poe Hall's original design plans show how the system's ducts were designed to be laid out, identified equipment locations, established intended airflow pathways, and specified that supply ducts were to be lined on their interiors with insulation, and that exposed insulation faces were to be sealed. Poe Hall was built with a mechanical system that uses separate hot and cold air supply ducts mixed at the point of use to maintain individual space temperatures. Both hot and cold air are produced at each air handler simultaneously. It is atypical both for HVAC mechanical systems to be configured with dedicated hot and cold supply ducts and for insulation to line their entire lengths, but it is especially uncommon practice to include both elements in the same system. Six air handlers feed four separate building zones with ductwork passing through mechanical shafts, exterior ribs, and interior ceilings. Poe Hall has four air handler mechanical spaces that correspond with each of the four HVAC zones (Figure 2). Six air handlers are present within the four mechanical spaces. Two air handlers are on the first floor and four air handlers are in penthouse mechanical spaces on the roof. Hot and cold air supply duct mixing boxes can be found around the perimeter casework of the building as well as in ceilings.

Air handler mechanical rooms function as open plenums where outside air is mixed with return air. Air handlers distribute supply air through supply ductwork to occupied spaces. Return air travels from the occupied space through ducts that terminate at shaft walls. Return air is released into the open mechanical shafts leading to the mechanical space. Original project specifications indicate widespread use of duct liner, fire-retardant insulations adhesives, fire-resistant breather mastics, and, in general, "sealants." Documents indicate these materials will be on both the interiors and exteriors of ductwork throughout the building.

A 2010 controls upgrade project indicated the replacement of many mixing boxes and air control valves. Most new mixing boxes serve interior rooms as well as some perimeter rooms on the second floor. Most new air valves serve existing mixing boxes in perimeter rooms.

Construction documents provided information useful to selecting HVAC sampling locations that broadly cover system components in all four HVAC zones. Project specifications provided insight into materials used and where they may be found.

3.1.2. HVAC Zones and Air Circulation

Based on the document review, Turner constructed generalized schematics of Poe Hall's HVAC systems to conceptualize air circulation in the building. Schematics are shown on **Figures 3, 4 and 5** and described as follows. Poe Hall's HVAC systems use commercial AHUs to direct air flow through hot and cold coils. The air is either heated or cooled and dehumidified by flowing over the respective coils before entering dedicated hot and cold air supply ducts. Hot and cold air travel

separately in their respective ducts until they reach mixing boxes located near or inside rooms. Room occupants set a desired temperature, and, in response, hot and cold dampers on the mixing box open or close to achieve the desired temperature in the mixing box. Mixing box air is then supplied to the room. Air circulating in the room is subsequently drawn into an independent set of return ducts. Return ducts from multiple floors tie into a vertical mechanical shaft. Return air flows back to the AHU within the open shaft space outside of ductwork. During occupied conditions, outdoor air (fresh air) is mixed with return air in the mechanical room before it is drawn through two sets of filters in the air handler and redistributed to hot and cold coils and their respective supply ducts. Relief fans (not shown) are used as needed to remove air from the penthouse mechanical spaces and offset the incoming volume of outside air.

Poe Hall is divided into four (4) HVAC circulation zones (**Figure 2**) that each function as described above with some differences. Air circulation Zone 1 covers approximately the eastern half of floors 1 and 2 and is served by AHU number 1 in its own mechanical room on the first floor, serves the western half of floors 1 and 2. Return air is drawn into vertical shafts, one on the east and one on the west side, that span both floors 1 and 2. Similarly, service to floors 3 through 7 is split east and west; return air is drawn to separate vertical shafts that span floors 3 through 7 and each zone (Zone 3 to the east and Zone 4 to the west) is served by AHUs housed in penthouse mechanical rooms. Return shafts serving floors 1 and 2 are directly below return shafts serving floors 3 through 7. The third floor separates the vertical shafts. Zones 3 and 4 are each served by two AHUs that work in tandem (**Figure 2**). Hot and cold air supply duct interiors are lined with insulation, and main supply air ducts are run inside of all four return shafts. Branch supply ducts exit the shafts at each floor.

3.2. Mechanical Systems

The results of the visual inspections from January and March 2024 are summarized, followed by the steps that NCSU followed when restarting and operating Poe Hall's HVAC systems in April 2024.

3.2.1. Visual Inspection Results

Various ventilation system components and building materials were observed throughout Poe Hall. Insulation was observed on the exterior of return ducts and in the interior of supply ducts. Insulation and insulation adhesives were found on the inside surfaces of metal access panels to mixing boxes, as well as inside AHUs in mechanical rooms. Sealants were found applied to metal duct surfaces where two segments of duct were joined. Sealants were observed on the cut edges of insulation inside of supply ducts at insulation seams. Various colors of sealants were observed including red, gold, gray and black. Filters were found on the influent side of air handling units in mechanical rooms and inside supply vents on perimeter room terminal mixing boxes on floors 3 through 7.

As part of the investigation, Geosyntec and Turner visually inspected bulk materials in the four air handler mechanical rooms, six AHUs, 12 hot air supply ducts, 19 cold air supply ducts, five mixed air supply ducts, three perimeter mixing boxes housed under windowsill casework, and one return duct. Ductwork was inspected on floors 1 through 7 in all four HVAC zones, in hallways and in interior and perimeter rooms. Visual inspection results are summarized in **Table 1**. Example photos are provided in **Appendix B2**. Visual Inspection results are described in the following

subsections (Supply ducts, Air Handlers, Return Ducts, Sealants and Other Locations and Materials):

3.2.1.1. Supply Ducts

Geosyntec and Turner visually assessed the nature and areal extent of insulation materials within the interior of supply ducts. The design drawings specified insulation along the entire lengths supply ducts, and Geosyntec observed it at all 37 supply duct visual inspection locations on all floors in all zones (see photograph ID 1-12 in **Appendix B2**). Insulation materials that line the internal surface areas of supply ducts contain 5 components (see **Figure 6**):

- **Insulation sealants**: various elastic sealants applied to exposed edges of insulation at the seams of duct sections
- **Insulation pins**: metal pins used to mechanically anchor insulation to the galvanized duct
- Insulation facing: a black textile material bonded to the top side of the insulation
- **Insulation fibers**: thermal/acoustic yellow fiberglass
- **Insulation adhesive**: various glues used to adhere fiberglass insulation to galvanized duct and to mechanical insulation pin tops

The insulation material inside supply ducts was almost completely intact where observed, with some signs of wear. The insulation fibers and insulation sealants along edges appeared intact, and the insulation facing was often discolored and occasionally torn. Discoloration was frequently observed on the surface of insulation facing, including fading, darkening and discoloration associated with dust/debris deposits (see photograph ID 15 - 19 Appendix B2). Most of the observed surface area of the facing was intact, but various tears and patches of different sizes were present (see photograph ID 20 - 25 in Appendix B2). While occasional small tears (smaller than approximately 3 centimeters) were observed in 32 inspected ducts, larger torn patches were observed in eight inspected ducts. Insulation was compressed forming a small dent in the insulation facing and fibers in two inspected ducts (see photograph ID 26 in Appendix B2). The insulation sealants were almost universally in good condition. They covered the seams between sections of insulation, and exposed insulation was only observed where the facing material was torn. The sealants were generally sturdy and difficult to peel away from the insulation materials (see photograph ID 31 - 36 in Appendix B2). A greenish insulation adhesive was also observed under insulation fibers where Geosyntec and Turner pulled back insulation from duct sheet metal to inspect them (see photograph ID 13 in Appendix B2). Ducts sealants were observed at the exterior seams of every duct section including red, gold, gray and yellow sealants (see photograph ID 37 -40 in Appendix B2). Air turning vanes were observed at duct elbows (see photographs ID 10 and 11 in Appendix B2).

3.2.1.2. Air Handlers

Internal insulation was observed in each AHU. The insulation fibers on the walls and ceiling of the fan box were intact with discolored insulation facings. However, the insulated floor inside fan boxes was significantly worn. Patches of insulation fibers and insulation facing had torn away from the insulated floor of each AHU fan box. Due to the patches of missing insulation materials,

the pink insulation adhesive used to adhere the original insulation was exposed on the fan box floor (see photograph ID 27 in **Appendix B2**). Insulation sealants and insulation pins were not observed inside the fan box or coil sections.

3.2.1.3. Return Ducts

The design drawings specified return ducts to be insulated externally, and Geosyntec did not observe internal insulation in one return duct interior that was visually inspected. Behind the return grille on the inspected return duct, exterior insulation materials were visible on the exterior of the ductwork (see photograph ID 29 in **Appendix B2**). Foil-faced insulation was frequently observed on return duct exteriors above ceiling tiles when inspecting nearby supply ducts.

3.2.1.4. Sealants

Various colors of insulation and ducts sealants were observed on the interior and exterior of all visually inspected supply ducts. Sealants, in good condition, were observed on interior duct sections, insulation pins, and exterior ducts sections, and were observed approximately every 1–4 feet of interior supply duct length. The most abundant insulation sealant observed was gold in color (see photograph ID 31 in Appendix B2). Gold, red, black, and gray colored insulation sealants were observed in 35, 21, 3, and 1 location(s), respectively (see photograph ID 31 - 36 in Appendix B2). The sealants were found around the seams of duct sections and access panel door frames. Gold sealant around seams and red sealant on the interior door frames of access panels was common (see photograph ID 33 in Appendix B2). Red sealant overlayed on gold sealant on the interior seams at duct sections was common and observed in 14 inspected supply ducts (see photograph ID 34 in Appendix B2). Black sealant was rare and observed on seams at two locations and on insulation fasteners at one location (see photograph ID 35 in Appendix B2). Red, gold, and gray duct sealants were also observed on the exterior seams of ducts sections (see photograph ID 37 - 40 in Appendix B2). The most common duct sealant was red and was often overlayed with gold colored duct sealant (see photograph ID 38 in Appendix B2). Gray duct sealant was only observed in AHU mechanical rooms (see photograph ID 39 in Appendix B2). In some cases, it appeared that both insulation adhesives and insulation sealants had been used to adhere insulation pins (see photograph ID 14 in Appendix B2). A schematic cutaway of typical supply ducts is shown on Figure 6.

3.2.1.5. Other Locations and Materials

Mixing boxes, filters, construction adhesives and window caulk were also observed during the visual inspections (see **Appendix B2** for example photos). Insulation was observed in three out of three inspected mixing boxes under supply grille diffusers in windowsill casework. The insulation around the mixing boxes was fiberglass with foil scrim kraft facing. On the backside of some mixing box access panels, the insulation was either unfaced or was missing. Where insulation was missing, a pink insulation adhesive was observed (see photograph ID 28 in **Appendix B2**). In addition, a white foamboard insulation material was observed on the precast concrete ribs in windowsill casework along the building perimeter. Black window caulk was observed on windows in perimeter offices and classrooms (see photograph ID 45 - 46 in **Appendix B2**).

The walls of mechanical rooms where air handlers are housed are insulated with foamboard. Foamboard insulation panels are adhered to the wall with a foamboard construction adhesive. In the mechanical room housing AHU 1, some foamboard panels lost adhesion to the wall and the

dried and cracked adhesive was exposed (see photograph ID 30 in **Appendix B2**). The adhesive was flakey, and deposited flakes were observed on the floor and a nearby ledge. Foamboard insulation was visible in mechanical shafts. Each air handler has a return section with rows of pleated air filters (see photograph ID 41 in **Appendix B2**) followed by rows of pocket air filter (see photograph ID 42 in **Appendix B2**), whereas terminal supply filters were only observed in perimeter windowsill supply grilles on floors 3-7 (see photograph ID 43 - 44 in **Appendix B2**).

3.2.2. Restart and Operation of HVAC Systems

After consulting with USEPA, NCSU Facilities restarted Poe Hall's HVAC systems on April 16, 2024 in coordination with Geosyntec and Turner to prepare for collecting air samples. NCSU Facilities inspected and restarted the six AHUs using the steps described here and in accordance with a checklist. Before startup, checks included turning on the steam and chilled water pumps and verifying that control valves were operating properly. A visual inspection was performed on pulleys and belts, cooling and heating coils, piping and valves, dampers and actuators, and on the drain and condensate pan. The motor and fan bearings were lubricated, and the fan and blades were inspected. Filters were visually inspected for mold or damage; no mold or damage was noted other than the pleated and bag filters that had been cut for bulk sampling in March 2024. On AHUs 1 and 2, one of the 16 pleated filters and one of the 15 pocket filters were replaced on each. On AHUs 3-6, one pleated filter was replaced on each; NCSU ordered replacement bag filters for AHUs 3-6 and left the cut bag filters in place. Completed startup checklists are included in **Appendix C**.

After the AHUs were turned on, NCSU monitored system performance for approximately two days (April 16–18, 2024) running in occupied mode until setpoints were reached and maintained. On April 16, 2024, AHU 6 switched off by itself and was restarted manually on April 17, 2024. AHU 1 would not operate continuously at full speed so it was set to operate at 30 Hertz, which is 50% run speed. On April 17, 2024 NCSU replaced a 24-volt power supply (Schneider Electric SpaceLogic Model PS-24V) that had failed. The power supply allows the building automation system graphics and status of relief fans 1 and 2 to be visible on-line for AHUs 3 and 4. No other materials or components were removed or replaced.

On April 18, 2024 the systems were switched to the typical weekday operating schedule of alternating occupied and unoccupied modes. Occupied mode runs from 4 a.m. to 11 p.m. and unoccupied mode runs from 11 p.m. to 4 a.m., the same operating schedule that NCSU used in Poe Hall before the building was closed in November 2023. This alternating occupied/unoccupied schedule was maintained from April 18, 2024 through the start of air sampling on Wednesday April 24 to Saturday April 27, 2024 when air sampling was completed. On Saturday April 27, 2024, the units were set to continue the same schedule so that it would not switch to an energy-saving weekend mode according to the automated schedule. HVAC systems were operated using the existing space temperature settings that faculty and staff had used in each room prior to building closure. HVAC systems were set to override the "economizer" mode which typically would make use of temperate, dry outdoor air when available by opening outdoor air dampers to reduce energy consumption. Instead, during use of the occupied mode, the outdoor air damper was set to 10% and during use of the unoccupied mode the outdoor damper was set to 0%.

As of April 18, 2024:

- AHUs were running at 100% except AHU #1 running at 50%
- Relief fans on the mechanical penthouses were functional
- Outdoor air damper was set to 10% when in occupied mode and 0% in unoccupied mode

On April 30, 2024, HVAC operation was set to an energy savings schedule.

3.3. Bulk Sampling Results

Geosyntec collected 111 samples of bulk materials from floors 1 to 7. These samples included insulation sealants (39); insulation facing (36); pleated supply air filters (8); pleated return air filters (6); pocket return air filters (6); insulation fibers (6); interior window caulk (4); insulation adhesives (3); duct sealants (2); and foamboard construction adhesive (1). Sealants are present in five colors with gold being the most abundant and most frequently sampled. The colors of sealants that were sampled were gold (20), red overlayed on gold mixtures (14), red (3), black (2), and gray (2). **Figures 7a** through **7h** show bulk sample collection locations on each floor.

The laboratory (EMSL) reported results for the nine common PCB Aroclors. Laboratory reporting limits for bulk samples (0.50 parts per million [ppm]) were well below the Toxic Substances Control Act (TSCA) "PCB Bulk Product Waste" criterion for total PCBs (50 ppm). Geosyntec checked each laboratory sample data group using a level 1 data quality checklist. Results are summarized in **Table 2**. Laboratory reports are included in **Appendix D**. Example photos of bulk sample locations for each material type are in **Appendix B3**.

PCBs were detected in all bulk samples collected from January 4 to 5 and March 5 to 8, 2024. The laboratory reported Aroclor-1262 detections in 110 out of 111 bulk samples (including 1 duplicate) with concentrations ranging from 0.91–53,000 ppm, and reported other Aroclors in a small number of samples. Aroclor-1242 was detected twice, and Aroclor-1254 and Aroclor-1260 were each detected once. Aroclor-1242, Aroclor-1254, and Aroclor-1262 were each detected in a single sample of foamboard construction adhesive from an air handler mechanical room; concentrations ranged from 8–13 ppm. Aroclor-1242 and Aroclor-1262 were both detected in a single sample of gray insulation sealant at concentrations of 1.9 ppm and 11 ppm, respectively. Aroclor-1260 was detected in a single sample of pink insulation adhesive from the AHU 1 fan box with a concentration of 2,500 ppm; Aroclor-1262 was not detected in this sample. Of the 111 unique bulk samples analyzed, PCB concentrations exceeded the TSCA "PCB Bulk Product Waste" criterion in 103 samples (USEPA 2021).

Concentrations of Aroclor-1262 were greatest in insulation sealants and lined duct insulation facing. Average concentrations of Aroclor-1262 in insulation sealants and insulation facing were at least one to two orders of magnitude higher than concentrations in other materials (**Tables 3** and **4**). Aroclor-1262 concentrations in insulation sealants were 14,485 ppm, on average, and ranged from 11–53,000 ppm. Gold sealant concentrations ranged from 900–53,000 ppm, with an average of 15,169 ppm, and gold/red sealant mixture concentrations ranged from 330–48,000 ppm, with an average of 18,552 ppm. Red and black sealant generally had lower concentrations, with averages of 395 ppm and 495 ppm, respectively. Analysis of a single sample of gray insulation sealant produced a result of 11 ppm. The Aroclor-1262 concentration in the black insulation facing was 2,762 ppm, on average, and ranged from 82–24,000 ppm. Three insulation facing samples had

concentrations between 21,000–24,000 ppm, but concentrations in the remaining 33 samples of facing were much lower, ranging from 82–2,400 ppm.

Concentrations of Aroclor-1262 in red and gray duct sealants, insulation fibers, insulation adhesives, supply/return filters, construction adhesives, and indoor window caulk were all less than 1,000 ppm. Insulation fibers, insulation adhesives, and duct sealants had Aroclor-1262 concentrations in the range of 1–480 ppm, 260–770 ppm, and 19–240 ppm, respectively. PCB concentrations on pleated return filters and pocket return filters ranged from 11-93 ppm and 110-340 ppm, respectively, which were approximately 25% -75% lower, on average, than pleated supply filters which ranged from 50–570 ppm. Interior window caulk and foamboard construction adhesive also contained Aroclor-1262 in the range of 46–190 ppm for caulking and 8 ppm for the adhesive. The results organized by material type are summarized in **Table 3**.

Concentrations of PCBs in bulk materials were generally higher in HVAC zone 4, which is serviced by AHUs 5 and 6. The average concentration of PCBs in gold sealant and red overlayed on gold sealant mixtures was 25,923 ppm in HVAC zone 4 and ranged from 9,374–15,025 in the other HVAC zones. Except for the three samples of insulation facing with concentrations ranging from 21,000-24,000 ppm from HVAC zone 3, the average PCB concentration in insulation facing was 1,073 ppm in HVAC zone 4 and ranged from 541–894 ppm in the other HVAC zones. When the three samples are included, the average PCB concentration in insulation facing was highest in HVAC zone 3 at 4,795 ppm. A similar trend was observed for pleated supply filters that ranged from 50–400 ppm and 120–570 ppm in HVAC zones 3 and zone 4, respectively; supply grilles did not contain filters on floors 1 and 2, which are serviced by HVAC zones 1 and 2. The bulk sample results summarized by HVAC zone for selected material are summarized in **Table 4**.

3.4. <u>Air Sampling Results</u>

Geosyntec collected air samples in April 2024 from the same locations in Poe Hall that were sampled in December 2023. The April 2024 sample set included 14 indoor air samples, one outdoor air sample from the rooftop, three duplicates, and one blank. Sample locations were selected to include multiple samples from each of the seven building floors and rooftop, from most types of rooms, and for each of the four HVAC circulation zones. Room types sampled included offices, classrooms, laboratories, a library, and a bathroom. **Figures 7a** through **7h** show air sample collection locations on each floor.

Geosyntec collected air samples on PUF/XAD® cartridges for a total of 24 hours spanning different time periods from April 24 to April 27. Twelve indoor air samples, three indoor air duplicates (collected from Rooms 106, 402G, and 742) and one outdoor air sample were collected on April 25; one indoor air sample was collected on April 26; and one indoor air sample was collected on April 27. Typically, indoor air was sampled for 12 hours on April 24 and 12 hours on April 25 when the HVAC operated in occupied mode. One indoor air sample (Room 510E) had a sampling period that spanned 8.3 hours on April 24, 12.6 hours on April 25, and 3.1 hours on April 26 because the pumps used to draw air through the sampler stopped pumping several hours after beginning on April 24. Geosyntec accessed the electronic log in each pump that recorded the start and stop times and used the logs to restart the pump to run for the balance of hours needed to complete a 24-hour sample time. One indoor air sample and its duplicate (Room 402G) were sampled for 13.7 hours on April 26 and 10.3 hours on April 27, using PUF/ XAD® resin collection medium. Due to market supply limitations for the cartridges used to collect samples, PUF

cartridges were used to collect 16 samples, and PUF/XAD® resin cartridges were used to collect two samples. Both sorbent media are compatible with USEPA Method TO-10A.

Aroclor-1262 was detected in each indoor air sample (concentrations ranged from 0.077- $0.155 \,\mu g/m^3$) and was not detected in the outdoor air sample. No other Aroclors were detected in air samples. A summary of laboratory data is presented in **Table 5**. Geosyntec checked each laboratory sample data group using a level 1 data quality checklist. Laboratory reports are included in **Appendix E1**, and air sampling field forms are included in **Appendix E2**.

All indoor air sampling results from both April 2024 and December 2023 were below the USEPA Exposure Levels for Evaluating PCBs in School Indoor Air for adults and age cohorts three years and older (USEPA, 2015b). USEPA notes that these exposure levels are not intended to be "bright line" or "not-to-exceed" criteria and are intended to maintain PCB exposures below the oral reference dose (RfD) of 20 nanograms of PCBs per kilogram of body weight per day, which is a daily exposure that is unlikely to pose a significant risk of harm over a lifetime of exposure (USEPA, 2015b). USEPA calculated the school indoor air PCB concentrations that would result in an estimated total exposure equal to the RfD when all other school and non-school PCB exposure pathways were set to average background levels (USEPA 2015b).

Concentrations of Aroclor-1262 in indoor air varied very little by floor or HVAC zone. The average Aroclor-1262 concentration in air was $0.103~\mu g/m^3$ on floors 1-2 and $0.120~\mu g/m^3$ on floors 3-7. Indoor air results for Aroclor-1262 grouped by floors 1-2, floors 3-7, and HVAC zone are presented in **Table 6**.

Indoor air results obtained in April 2024 when the HVAC was in operation were compared to results obtained in December 2023 when the HVAC systems were off. Indoor air concentrations of Aroclor-1262 measured with HVAC systems on were higher than the concentrations measured when the HVAC systems were off. A narrower range of concentrations were observed across building zones in April 2024, which indicates a higher degree of air mixing and circulation with the HVAC system enabled, as expected. Indoor air results from December 2023 and April 2024 are both presented in **Tables 5 and 6**.

3.5. Summary of Other Relevant Data

Other environmental data from Poe Hall that are relevant to this investigation are summarized in **Appendix F. Figures 7a** through **7h** show wipe sample collection locations on each floor.

4. DISCUSSION AND REVISED CONCEPTUAL SITE MODEL

The information collected during the initial and second phases of this investigation and other relevant data referenced above are analyzed and presented in a revised CSM comprising an updated discussion of PCB sources, PCB transport and considerations for potential human exposure. The preliminary CSM in the initial phase report assumed that the primary mechanism by which building occupants potentially could be exposed to PCBs would be through contacting or respiring PCBs adsorbed to dust, and that dust is conveyed and distributed by the building's six AHUs and duct network. Sources of PCBs to dust would be located inside the HVAC system components, in contact with flowing air.

4.1. PCB Sources

Data from the second phase of investigation and from earlier sampling conducted by NCSU are consistent with the presence of PCB-containing materials throughout supply ducts in contact with flowing air that could act as sources of PCBs to dust in Poe Hall. Data show that bulk materials (including fiberglass insulation, insulation facing and sealants) are present on the interior of air supply ducts at all inspected locations consistent with the design drawings that specified insulation lining the inside of supply ducts along their entire lengths (**Figure 6**). Analytical data and this evaluation indicated that PCBs were present in all bulk material types tested, but the gold-colored insulation sealant inside supply ducts was the most prevalent and was likely manufactured with PCBs; therefore, the gold-colored sealant was likely the primary source of Aroclor-1262 PCBs detected in Poe Hall. The gold-colored sealant was the most frequently observed sealant, and more than half of the gold sealant samples analyzed contained Aroclor-1262 at concentrations of approximately 10,000 to 50,000 ppm.

Other potential sources of PCBs (such as transformer oil, light ballast, adhesive and caulk) are unlikely to have been significant contributors to the observed distribution of Aroclor-1262 in surficial dust or air in the building. For example, PCBs were known to be present historically in an electrical transformer and in light ballasts, and were detected in some bulk materials that are not on the interior of supply ducts, such as duct sealants, exterior insulation, filters, caulk and foamboard adhesives. PCBs were also detected in other bulk materials collected inside of supply ducts including insulation, insulation facing and insulation adhesive. None of these potential sources of PCBs likely contributed significantly to PCBs on dust distributed in Poe Hall based on the following rationale:

- 1. The transformer's oil was replaced in 1991 and only contained a trace of PCBs at that time. It was replaced in 2012 with a non-PCB containing transformer that was manufactured in 2008; therefore, the transformer could not have acted as a source of PCBs to the building.
- 2. All light ballasts were replaced by 2010, which means that lighting systems cannot act as a continuing source of PCBs.
- 3. If either the transformer or the light ballasts were acting as sources of PCBs to Poe Hall in 2023 and 2024, the resulting distribution of PCBs in the building would be expected to be more uneven than what was observed in air or surficial dust samples collected since 2023. Rather, the distribution would likely be focused on areas where transformer oil could enter the building or where a PCB-containing light ballast had been missed or had leaked. Furthermore, more than a decade of routine housekeeping would likely have reduced PCB

concentrations below detectable levels in much of the building if these sources were important.

- 4. All analyses of bulk samples collected in 2024 (except for three insulation facing samples discussed in Section 4.2) reported much lower concentrations of Aroclor-1262 than in gold insulation sealant samples.
- 5. Window caulk samples from 2018 that did report relatively high total PCB concentrations, reported Aroclors-1254 and -1268, which were not detected in any air sample. Aroclor-1254 was detected in 1 of 77 surface dust samples at 2 ppm.
- 6. An insulation adhesive sampled from an AHU fan box reported Aroclor-1260 at 2,500 ppm; and trace amounts of Aroclors-1242 and -1254 were reported in foamboard adhesive in a mechanical room. These Aroclors were not detected in any air or gold-colored sealant sample, and Aroclor-1254 was detected in 1 of 77 surface dust samples at 2 ppm.

Based on this review, we presume that the widely-distributed gold-colored insulation sealant was the primary source of PCBs, that the gold sealant was manufactured to contain Aroclor-1262, and that both the fiberglass insulation and insulation facing were not manufactured with PCBs.

4.2. PCB Transport

The data collected during this investigation support the hypothesis that PCBs from bulk materials in supply ducts diffused into materials in direct contact with the sealant, adsorbed onto dust, and were transported via the HVAC systems to air and surfaces of Poe Hall.

Arolcor-1262 PCBs in the gold-colored sealant began their transport by diffusing into materials in direct contact with the sealant. The first such materials would have been some insulation facing and some red-colored sealant. This conclusion is supported by laboratory results from 11 red overlayed on gold sealant mixtures and from three samples of insulation facing. These samples that had been in contact with gold sealant averaged approximately 10,000–50,000 ppm Aroclor-1262, overlapping with the upper concentration range of gold sealant. From the insulation facing, some PCBs diffused into insulation fibers underneath. From gold and red sealants and some insulation facing, some PCBs also diffused into dust that came into contact as it migrated through supply ducts. In addition, insulation facing eroded after many years of airflow in supply ducts, also forming dust with PCBs adsorbed.

Other lines of evidence are also consistent with transport of PCBs dust from bulk materials in supply ducts to air and surfaces in Poe Hall. Aroclor-1262 was by far the most frequently detected Aroclor in bulk samples collected from inside supply ducts, in surficial dust wipe samples, and in indoor air samples. Aroclor-1262 was detected on dust collected from surfaces and in air samples collected in all four HVAC circulation zones and on all floors. All filters tested had only Aroclor-1262 reported, and in a narrow range of concentrations similar to other bulk materials like insulation fibers and exterior duct sealants. Pleated filters used in supply grille diffusers in individual rooms had slightly higher concentrations than either the pleated or pocket filters used at AHU returns. This result on filters is consistent with the fact that all filters were manufactured

without PCBs, decades after 1979, and with the mix of air that each type of filter would encounter during its life. Filters used in diffusers would have encountered 100% of their air that was just exiting supply duct systems, whereas filters at AHU returns would encounter a mix of return air and outdoor air. Outdoor air would introduce dust containing no PCBs. These results are consistent with filters tested having acquired PCBs by collecting PCB-bearing dust.

PCB-bearing dust migration from supply ducts may be a more recent change in conditions relative to the age of the building. Diffusion is a slow mass transport process, and the insulating facing's function was to stay intact for years to resist erosion of insulation fibers.

The discussion in Section 3.1 and conceptual schematics shown on **Figures 3**, **4** and **5** present how air circulation works in Poe Hall. This understanding of HVAC systems and the observed PCB concentrations in sealants, insulation facing, other bulk materials, surficial dust and air are consistent with the following sequence that likely took years to progress:

- 1. PCB Aroclor-1262 originated in gold-colored insulation sealant.
- 2. PCBs migrated by diffusion into adjacent materials where they were in contact, including insulation facing and overlayed red sealant.
- 3. PCBs diffused onto dust where it settled on gold and red sealants and insulation facing. That dust originated from both (a) outside the HVAC system by getting through or around filters as very small particles and (b) inside the HVAC system, for example as insulation facing inside of supply ducts that contained some PCBs began to erode and break away as dust.
- 4. Dust with adsorbed PCBs circulated in the building, and some dust settled onto surfaces.

4.3. Considerations for Potential Human Exposure

The Aroclor-1262 PCBs present in sealants and insulation facing at higher concentrations were not accessible to Poe Hall occupants because those sealants and insulation facing materials are present inside ducts, on the outside of ducts, and in mechanical rooms behind locked doors.

Although relatively high concentrations of Aroclor-1262 PCBs were detected in source materials, such as sealants and insulation facing, the data do not support that PCB concentrations in air exceed applicable risk-based thresholds. The data are consistent with the revised CSM discussed in this report, supporting the concept that the primary mechanism by which building occupants potentially could be exposed to PCBs would be through contacting or respiring PCBs adsorbed to dust. The presence of PCBs in building materials at any concentration does not translate directly to either exceedance of a risk-based threshold or to exposure that is atypical. Typical PCB uptake in people nationwide comes from a combination of air in tens of thousands of buildings and from foods. Here, the data show that where PCBs were detected in surficial dust, nearly all results were below the USEPA PCB threshold for non-porous surfaces in high occupancy areas. All results in air samples showed PCB concentrations below the USEPA exposure levels for evaluating PCBs in school indoor air for adults and cohorts age three years and above both with the HVAC systems

off and with them running. Dust is the relevant medium to sample in air and on surfaces because PCB congeners with higher molecular weights, such as those comprising Aroclor-1260, Aroclor-1262 and Aroclor-1268, have very low volatility and therefore, are not expected to be present in air as a gas. In addition, and for context, Geosyntec reviewed relevant toxicological and epidemiological scientific studies on PCBs to support a current understanding of the potential human health effects associated with exposure, including an evaluation of the strength and consistency of such associations with the relative magnitude of exposures. This work is summarized in a memorandum attached as **Appendix G**.

5. RECOMMENDATIONS

Based on the findings of this investigation, we recommend the following:

- 1. That Poe Hall remain closed until PCBs can be mitigated or remediated, and that access to Poe Hall remain limited to authorized personnel. Authorized personnel include selected NCSU employees and contractors who are trained regarding hazards posed by hazardous materials, appropriate personal protective equipment, and other applicable subjects such as those included under the Occupational Safety and Health Administration's Hazardous Waste Operations and Emergency Response trainings.
- 2. That NCSU share an electronic version of the dataset from this investigation with NIOSH, in furtherance of the university's request that NIOSH conduct an independent health hazard evaluation.
- 3. That NCSU share this report with relevant regulatory agencies.
- 4. That NCSU continue regular communication with USEPA and consult with USEPA on PCB cleanup options.
- 5. That NCSU develop plans and schedules to be shared with USEPA that will describe a sequence of events leading to mitigation and/or remediation of PCBs in Poe Hall in compliance with 40 CFR part 761. An interim plan and schedule should address continued interim operation of HVAC systems containing PCBs, and a long-term plan and schedule will describe remediation plans.

6. REFERENCES

- Geosyntec Consultants. 2024. Indoor Environmental Investigation Report Initial Phase. North Carolina State University Poe Hall, Raleigh, North Carolina. February.
- USEPA. 2015a. Practical Actions for Reducing Exposure to PCBs in Schools and Other Buildings—Guidance for school administrators and other building managers: July 28, 2015. https://www.epa.gov/sites/default/files/2016-03/documents/practical_actions_for_reducing_exposure_to_pcbs_in_schools_and_other_buildings.pdf
- USEPA. 2015b. *PCBs in Building Materials—Questions & Answers: July 28, 2015*. https://www.epa.gov/sites/default/files/2016-03/documents/pcbs in building materials questions and answers.pdf
- USEPA. 2021. PCBs in Building Materials: Determining the Presence of Manufactured PCB Products in Buildings or Other Structures. May 2021. https://www.epa.gov/sites/default/files/2021-05/documents/final_pcb_buildings_fact_sheet_05-10-2021_to_upload.pdf

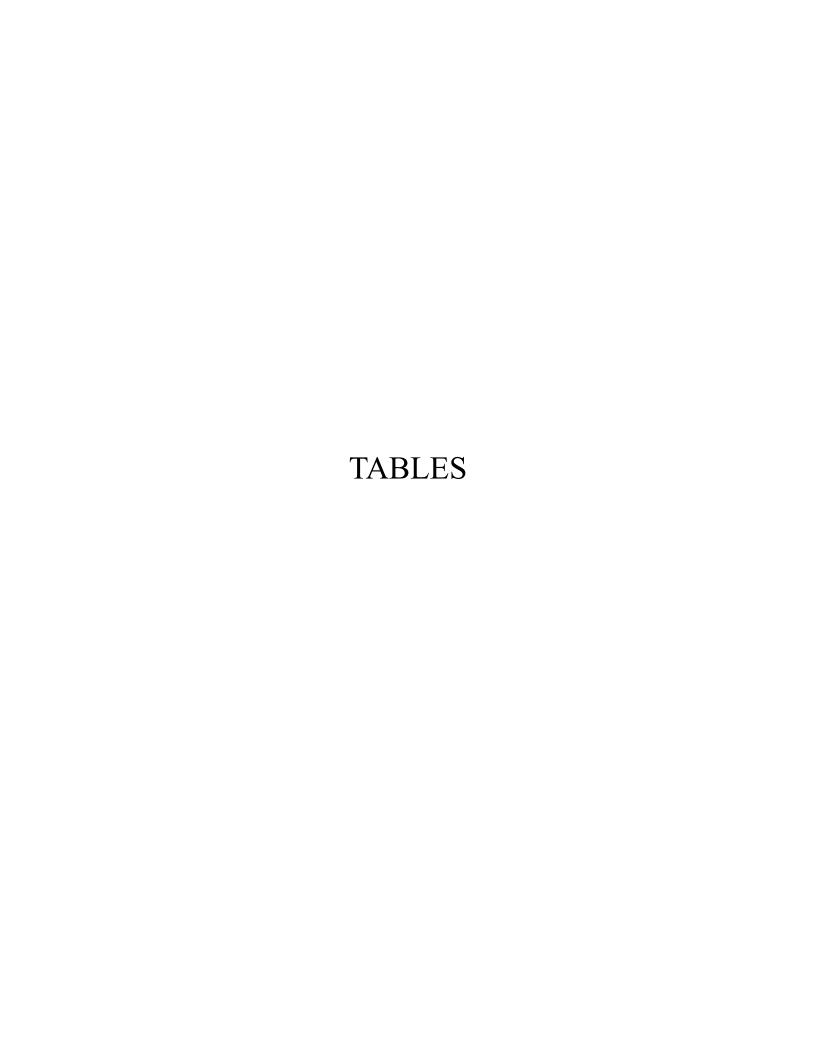


Table 1. Summary of Mechanical Systems Visual Inspection Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	Room Location	HVAC Circulation Zone	Room	Type of Duct	Was the Interior Insulated?	Was there Insulation Facing?	Was there Insulation Sealant?	What was the Condition of the Insulation?	Sample-IDs of Bulk Material Sampled		
	D	1	100	AHU 1 Fan Box	Yes, fiberglass	Yes, black textile	No	Patch(es) in Insulation Facing Discolored Insulation Facing Patch(es) in Insulation Fibers	B-01-100-INS-01042024 B-02-100-ADH-01042024		
	Perimeter	1	100	Hot Supply Duct	Yes, fiberglass	Yes, black textile	ttile Yes, Gray Intact Insulation Fibers and Sealants Discolored Insulation Facing		B-03-100-SEA-01042024		
	Interior	1	106	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-63-FAC-HS-PER-106-03072024 B-64-ISEA-HS-PER-106-03072024		
1st	menor	1	100	Cold Supply Duct	Supply Duct Yes, fiberglass Yes, black textile Yes, Gold & Red Tear(s) in Insu		Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-61-FAC-CS-PER-106-03072024 B-62-ISEA-CS-PER-106-03072024			
	Perimter	2	116	AHU 2 Fan Box	Yes, fiberglass	Yes, black textile	No	Intact Insulation Fibers and Sealants Patch(es) in Insulation Facing Discolored Insulation Facing	No Bulk Material Sampled		
	Interior	2	122	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-67-FAC-HS-PER-122-03072024 B-68-ISEA-HS-PER-122-03072024		
				Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-65-FAC-CS-PER-122-03072024 B-66-ISEA-CS-PER-122-03072024		
2nd	Interior	2	213 (hallway)	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-71-FAC-HS-INT-213-03072024 B-72-ISEA-HS-INT-213-03072024		
			(nanway)	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-69-FAC-CS-INT-213-03072024 B-70-ISEA-CS-INT-213-03072024		
	Perimeter		300D	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-14-FAC-CS-PER-300D-03052024 B-15-ISEA-CS-PER-300D-03052024		
	Interior		300P	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-20-FAC-CS-PER-300P-03062024 B-21-ISEA-CS-PER-300P-03062024		
		4	309 (hallway)	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Golod	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-18-FAC-HS-PER-309-03052024 B-19-ISEA-HS-INT-309-03052024		
	Interior		(nanway)	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Black	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-16-FAC-CS-INT-309-03052024 B-17-ISEA-CS-INT-309-03052024		
			310G	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-12-FAC-CS-PER-310G-03052024 B-13-ISEA-CS-PER-310G-03052024		
	Perimeter		317C	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Discolored Insulation Facing	B-26-FAC-HS-PER-317C-03062024 B-27-ISEA-HS-PER-317C-03062024		
3rd				Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-8-FAC-CS-PER-317C-03052024 B-9-ISEA-CS-PER-317C-03052024		
			317L	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Black	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-10-ISEA-CS-PER-317L-03052024 B-11-FAC-CS-PER-317L-03052024		
	Interior	3	325	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-24-FAC-HS-INT-325-03062024 B-25-ISEA-HS-INT-325-03062024		
			(hallway)	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-22-FAC-CS-INT-325-03062024 B-23-ISEA-CS-INT-325-03062024		
	Interior		326 (hallway)	Mixed Air Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-6-FAC-MB-INT-326-03052024 B-7-ISEA-MB-INT-326-03052024		
	Perimeter		326H	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold, Red & Black	Intact Insulation Fibers and Sealants Discolored Insulation Facing	B-3-ISEA-CS-PER-326H-03052024 B-4-FAC-MB-PER-326H-03052024 B-5-ISEA-CS-PER-326H-03052024		
	Interior		326J	Mixed Air Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Discolored Insulation Facing Dent(s) in Insulation Fibers and Facing	B-1-ISEA-MB-INT-326J-03052024 B-2-FAC-MB-INT-326J-03052024		
4th	Perimeter	4	402S	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-57-FAC-HS-PER-402S-03072024 B-58-ISEA-HS-PER-402S-03072024		
Notes:	. c. mietei	3	417	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-55-FAC-HS-PER-417-03072024 B-56-ISEA-HS-PER-417-03072024		

Notes: HVAC: Heating, Ventilation, and Air Conditioning AHU: Air Handling Unit N/A: Not applicable

N/A: Not applicable
FSK: foil skim kraft insulation wrap
HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.
All sealant colors that were observed in the viewable area at the sample location are listed.
Tear(s) - one or more tears in the insulation facing observed.
Patch(es) - one or more patches in the insulation facing observed.
Discolored - faded and darkened areas on the insulation facing observed.
Discolored - faded and darkened areas on the insulation facing and discoloration associated with dust/debris deposits.
Dent(s)- one or more areas where insulation was caved in observed.
Sample ID Nomenclature (Jan 2024): Bulk Sample-Sample Number-Material Type-Sample Room Number-Sample Date (B-##-TYPE-###-mmddyyyy)
Sample ID Nomenclature (March 2024): Bulk Sample-Sample Number-Material Type-Type of Duct-Building Location-Sample Room Number-Sample Date (B-##-TYPE-TYPE-LOC-###-mmddyyyy)

Table 1. Summary of Mechanical Systems Visual Inspection Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	Room Location	HVAC Circulation Zone	Room	Type of Duct	Was the Interior Insulated?	Was there Insulation Facing?	Was there Insulation Sealant?	What was the Condition of the Insulation?	Sample-IDs of Bulk Material Sampled				
	Perimeter		502O	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-59-FAC-HS-PER-502O-03072024 B-60-ISEA-HS-PER-502O-03072024				
	Interior	4	510	Mixed Air Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-09-510-INS-01052024 B-10-510-ADH-01052024 B-11-510-COAT-01052024				
5th	merior		510	Return Duct	No, exterior fiberglass	Yes, FSK jacket	No	N/A	No Bulk Material Sampled				
			510E	Mixing Box	Yes, fiberglass	Yes, FSK jacket	No	Intact Insulation Fibers and Facing	B-07-510E-INS-01052024				
	Perimeter	3 520B		Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-53-FAC-HS-PER-520B-03072024 B-54-ISEA-HS-PER-520B-03072024				
		4	520E	Mixing Box	Yes, fiberglass	Yes, FSK jacket	No	Intact Insulation Fibers and Facing	B-12-520E-INS-01052024				
		4	602F	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-34-FAC-CS-PER-602F-03062024 B-35-ISEA-CS-PER-602F-03062024				
	Perimeter		602M	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing Dent(s) in Insulation Fibers and Facing	B-36-FAC-CS-PER-602M-03062024 B-37-ISEA-CS-PER-602M-03062024				
	Interior	4	607	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-51-FAC-HS-INT-607-03062024 B-52-ISEA-HS-INT-607-03062024				
	Interior	4	(hallway)	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-49-FAC-CS-INT-607-03062024 B-50-ISEA-CS-INT-607-03062024				
	Perimeter		608D	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-38-FAC-CS-PER-608D-03062024 B-39-ISEA-CS-PER-608D-03062024				
6th	Interior		630	Hot Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-44-FAC-HS-INT-630-03062024 B-45-ISEA-HS-INT-630-03062024				
			(hallway)	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-42-FAC-CS-INT-630-03062024 B-43-ISEA-CS-INT-630-03062024				
			634A (hallway)	Mixed Air Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-46-FAC-MB-INT-634A-03062024 B-47-ISEA-MB-INT-634A-03062024 B-48-ISEA-MB-INT-634A-03062024				
		3	635	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-30-FAC-CS-PER-635-03062024 B-31-ISEA-CS-PER-635-03062024				
	Perimeter						636	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-32-FAC-CS-PER-636-03062024 B-33-ISEA-CS-PER-636-03062024
	Interior		638	Mixed Air Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Discolored Insulation Facing	B-40-FAC-MB-INT-638-03062024 B-41-ISEA-MB-INT-638-03062024				
	Perimeter		640C	Cold Supply Duct	Yes, fiberglass	Yes, black textile	Yes, Gold & Red	Intact Insulation Fibers and Sealants Tear(s) in Insulation Facing Patch(es) in Insulation Facing Discolored Insulation Facing	B-28-FAC-CS-PER-640C-03062024 B-29-ISEA-CS-INT-640C-03062024				
7th	Perimeter	3	742	Mixing Box	Yes, fiberglass	Yes, FSK jacket	No	Intact Insulation Fibers and Facing	No Bulk Material Sampled				
	Penthouse	4	D. CO.	AHU 5 Fan Box	Yes, fiberglass	Yes, black textile	No	Patch(es) in Insulation Facing Discolored Insulation Facing Patch(es) in Insulation Fibers	No Bulk Material Sampled				
Roof		7	P1003	AHU 6 Fan Box	Yes, fiberglass	Yes, black textile	No	Patch(es) in Insulation Facing Discolored Insulation Facing Patch(es) in Insulation Fibers	No Bulk Material Sampled				
1001	Dend	3	P1004	AHU 3 Fan Box	Yes, fiberglass	Yes, black textile	No	Patch(es) in Insulation Facing Discolored Insulation Facing Patch(es) in Insulation Fibers	No Bulk Material Sampled				
Notes:	Penthouse	,	11304	AHU 4 Fan Box	Yes, fiberglass	Yes, black textile	No	Patch(es) in Insulation Facing Discolored Insulation Facing Patch(es) in Insulation Fibers	No Bulk Material Sampled				

Notes:

Notes:

HVAC: Heating, Ventilation, and Air Conditioning

AHU: Air Handling Unit

N/A: Not applicable

FSK: foil skim kraft insulation wrap

HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

All sealant colors that were observed in the viewable area at the sample location are listed.

Tear(s) - one or more tears in the insulation facing observed.

Patch(es) - one or more patches in the insulation facing observed.

Discolored - faded and darkened areas on the insulation facing and discoloration associated with dust/debris deposits.

Dent(s)- one or more areas where insulation was caved in observed.

Sample ID Nomenclature (Jan 2024): Bulk Sample-Sample Number-Material Type-Sample Room Number-Sample Date (B-##-TYPE-###-mmddyyyy)

Sample ID Nomenclature (March 2024): Bulk Sample-Sample Number-Material Type-Type of Duct-Building Location-Sample Room Number-Sample Date (B-##-TYPE-TYPE-LOC-###-mmddyyyy)

Table 2. Summary of Detected PCB Aroclors in Bulk Material Samples Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSÜ - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room Location	Room	Sample Location	Type of Material Sampled	Material Color	Aroclor-1262 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1016, Aroclor- 1221, Aroclor-1232, Aroclor-1248, & Aroclor-1268 (mg/kg)	TSCA "PCB Bulk Product Waste" criterium (mg/kg)
		B-01-100-INS-01042024	Perimeter	100	AHU 1 fan box	Insulation Fibers	Yellow	480 (D)	ND	ND	ND	ND	50
		B-02-100-ADH-01042024	Perimeter	100	AHU 1 fan box	Insulation Adhesive	Pink	ND	ND	2,500 (D, B)	ND	ND	50
		B-03-100-SEA-01042024	Perimeter	100	Hot Supply Duct	Insulation Sealant	Gray	11 (D)	1.9 (D)	ND	ND	ND	50
		B-04-100-SXG-01042024	Perimeter	100	Hot Supply Duct	Duct Sealant	Gray	19 (D)	ND	ND	ND	ND	50
		B-19-100-FIL-0105204	Perimeter	100	AHU 1 Return	Pleated Air Filter	White	93 (D)	ND	ND	ND	ND	50
	1	B-77-FIL-RD-PER-100-03082024	Perimeter	100	AHU 1 Return	Pocket Filter	Pink	160 (D)	ND	ND	ND	ND	50
		B-78-XSEA-RD-PER-100-03082024	Perimeter	100	Interior Wall	Foamboard Adhesive	White	7.7 (D)	11 (D)	ND	13 (D)	ND	50
		B-64-ISEA-HS-PER-106-03072024	Interior	106	Hot Supply Duct	Insulation Sealant	Gold	1,400 (D)	ND	ND	ND	ND	50
1st		B-63-FAC-HS-PER-106-03072024	Interior	106	Hot Supply Duct	Insulation Facing	Black	82 (D)	ND	ND	ND	ND	50
		B-62-ISEA-CS-PER-106-03072024	Interior	106	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	24,000 (D)	ND	ND	ND	ND	50
		B-61-FAC-CS-PER-106-03072024	Interior	106	Cold Supply Duct	Insulation Facing	Black	1,000 (D)	ND	ND	ND	ND	50
		B-79-FIL-RD-PER-116-03082024	Perimeter	116	AHU 2 Return	Pocket Filter	Pink	150 (D)	ND	ND	ND	ND	50
	2	B-20-116-FIL-01052024	Perimeter	116	AHU 2 Return	Pleated Air Filter	White	54 (D)	ND	ND	ND	ND	50
		B-68-ISEA-HS-PER-122-03072024	Interior	122	Hot Supply Duct	Insulation Sealant	Gold	2,100 (D)	ND	ND	ND	ND	50
		B-67-FAC-HS-PER-122-03072024	Interior	122	Hot Supply Duct	Insulation Facing	Black	210 (D)	ND	ND	ND	ND	50
		B-66-ISEA-CS-PER-122-03072024	Interior	122	Cold Supply Duct	Insulation Sealant	Gold	16,000 (D)	ND	ND	ND	ND	50
		B-65-FAC-CS-PER-122-03072024	Interior	122	Cold Supply Duct	Insulation Facing	Black	1,200 (D)	ND	ND	ND	ND	50
		B-72-ISEA-HS-INT-213-03072024	Interior	213 (hallway)	Hot Supply Duct	Insulation Sealant	Gold	24,000 (D)	ND	ND	ND	ND	50
2nd		B-71-FAC-HS-INT-213-03072024	Interior	213 (hallway)	Hot Supply Duct	Insulation Facing	Black	1,100 (D)	ND	ND	ND	ND	50
ZIIG		B-70-ISEA-CS-INT-213-03072024	Interior	213 (hallway)	Cold Supply Duct	Insulation Sealant	Gold	18,000 (D)	ND	ND	ND	ND	50
		B-69-FAC-CS-INT-213-03072024	Interior	213 (hallway)	Cold Supply Duct	Insulation Facing	Black	380 (D)	ND	ND	ND	ND	50
		B-15-ISEA-CS-PER-300D-03052024	Perimeter	300D	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	28,000 (D)	ND	ND	ND	ND	50
		B-14-FAC-CS-PER-300D-03052024	Perimeter	300D	Cold Supply Duct	Insulation Facing	Black	1,100 (D)	ND	ND	ND	ND	50
		B-91-XSEA-MB-PER-300M-03082024	Perimeter (NW)	300M	Windowsill	Window Caulk	Black	190 (D)	ND	ND	ND	ND	50
		B-21-ISEA-CS-PER-300P-03062024	Perimeter	300P	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	11,000 (D)	ND	ND	ND	ND	50
3rd	4	B-20-FAC-CS-PER-300P-03062024	Perimeter	300P	Cold Supply Duct	Insulation Facing	Black	1,800 (D)	ND	ND	ND	ND	50
		B-19-ISEA-HS-INT-309-03052024	Interior	309 (hallway)	Hot Supply Duct	Insulation Sealant	Gold	31,000 (D)	ND	ND	ND	ND	50
		B-18-FAC-HS-INT-309-03052024	Interior	309 (hallway)	Hot Supply Duct	Insulation Facing	Black	280 (D)	ND	ND	ND	ND	50
		B-17-ISEA-CS-INT-309-03052024	Interior	309 (hallway)	Cold Supply Duct	Insulation Sealant	Gold	27,000 (D)	ND	ND	ND	ND	50
		B-16-FAC-CS-INT-309-03052024	Interior	309 (hallway)	Cold Supply Duct	Insulation Facing	Black	1,200 (D)	ND	ND	ND	ND	50

Sample ID Nomenclature (Jan 2024): Bulk Sample-Sample Number-Material Type-Sample Room Number-Sample Date (B.##-TYPE-###-mmddyyyy)

Sample ID Nomenclature (March 2024): Bulk Sample-Sample Number-Material Type-Type of Duct-Building Location-Sample Room Number-Sample Date (B.##-TYPE-TYPE-LOC-###-mmddyyyy)

Toxic Substances Control Act (TCSA) states materials that contains ≥ 50 mg/kg PCB are unauthorized for use and must be removed and disposed of as PCB bulk product

Values in bold exceed TCSA criteria for bulk PCBs HVAC - Heating, Ventilation, and Air Conditioning PCB - Polychlorinated Biphenyls

mg/kg - Miliigrams of PCBs per kilogram of material

AHU - Air Handling Unit
(D) - Analyte was reported from a dilution run

Table 2. Summary of Detected PCB Aroclors in Bulk Material Samples Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC CirculationZ one	Sample-ID	Building Location	Room	Sample Location	Type of Material Sampled	Material Color	Aroclor-1262 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1016, Aroclor- 1221, Aroclor-1232, Aroclor-1248, & Aroclor-1268 (mg/kg)	TSCA "PCB Bulk Product Waste" criterium (mg/kg)
		B-13-ISEA-CS-PER-310G-03052024	Perimeter	310G	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	25,000 (D)	ND	ND	ND	ND	50
		B-12-FAC-CS-PER-310G-03052024	Perimeter	310G	Cold Supply Duct	Insulation Facing	Black	1,500 (D)	ND	ND	ND	ND	50
	4	B-90-XSEA-MB-PER-310G-03152024	Perimeter (SW)	310G	Windowill	Window Caulk	Black	83 (D)	ND	ND	ND	ND	50
		B-73-FIL-MB-PER-310L-03082024	Perimeter	310L	Windowsill Supply Grille	Pleated Air Filter	White	120 (D)	ND	ND	ND	ND	50
		B-88-XSEA-MB-PER-310N-03082024	Perimeter (SE)	310N	Windowill	Window Caulk	Black	92 (D)	ND	ND	ND	ND	50
		B-9-ISEA-CS-PER-317C-03052024	Perimeter	317C	Cold Supply Duct	Insulation Sealant	Red	510 (D)	ND	ND	ND	ND	50
		B-8-FAC-CS-PER-317C-03052024	Perimeter	317C	Cold Supply Duct	Insulation Facing	Black	1,200 (D)	ND	ND	ND	ND	50
		B-27-ISEA-HS-PER-317C-03062024	Perimeter	317C	Hot Supply Duct	Insulation Sealant	Gold	2,500 (D)	ND	ND	ND	ND	50
		B-26-FAC-HS-PER-317C-03062024	Perimeter	317C	Hot Supply Duct	Insulation Facing	Black	320 (D)	ND	ND	ND	ND	50
		B-11-FAC-CS-PER-317L-03052024	Perimeter	317L	Cold Supply Duct	Insulation Facing	Black	800 (D)	ND	ND	ND	ND	50
		B-10-ISEA-CS-PER-317L-03052024	Perimeter	317L	Cold Supply Duct	Insulation Sealant	Black	220 (D)	ND	ND	ND	ND	50
		B-25-ISEA-HS-INT-325-03062024	Interior	325 (hallway)	Hot Supply Duct	Insulation Sealant	Gold	24,000 (D)	ND	ND	ND	ND	50
3rd		B-24-FAC-HS-INT-325-03062024	Interior	325 (hallway)	Hot Supply Duct	Insulation Facing	Black	24,000 (D)	ND	ND	ND	ND	50
		B-23-ISEA-CS-INT-325-03062024	Interior	325 (hallway)	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	330 (D)	ND	ND	ND	ND	50
	3	B-22-FAC-CS-INT-325-03062024	Interior	325 (hallway)	Cold Supply Duct	Insulation Facing	Black	940 (D)	ND	ND	ND	ND	50
	_	B-7-ISEA-MB-INT-326-03052024	Interior	326 (hallway)	Mixed Air Supply Duct	Insulation Sealant	Gold	900 (D)	ND	ND	ND	ND	50
		B-6-FAC-MB-INT-326-03052024	Interior	326 (hallway)	Mixed Air Supply Duct	Insulation Facing	Black	21,000 (D)	ND	ND	ND	ND	50
		B-74-FIL-MB-PER-326D-03082024	Perimeter	326D	Windowsill Supply Grille	Pleated Air Filter	White	50 (D)	ND	ND	ND	ND	50
		B-5-ISEA-CS-PER-326H-03052024	Perimeter	326H	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	400 (D)	ND	ND	ND	ND	50
		B-4-FAC-CS-PER-326H-03052024	Perimeter	326H	Cold Supply Duct	Insulation Facing	Black	24,000 (D)	ND	ND	ND	ND	50
		B-3-ISEA-CS-PER-326H-03052024	Perimeter	326H	Cold Supply Duct	Insulation Sealant	Black	770 (D)	ND	ND	ND	ND	50
		B-89-XSEA-MB-PER-326H-03082024	Perimeter (NE)	326H	Windowsill	Window Caulk	Black	46 (D)	ND	ND	ND	ND	50
		B-2-FAC-MB-INT-326J-03052024	Interior	326J	Mixed Air Supply Duct	Insulation Facing	Black	1,900 (D)	ND	ND	ND	ND	50
		B-1-ISEA-MB-INT-326J-03052024	Interior	326J	Mixed Air Supply Duct	Insulation Sealant	Gold	980 (D)	ND	ND	ND	ND	50
	3	B-56-ISEA-HS-PER-417-03072024	Perimeter	417	Hot Supply Duct	Insulation Sealant	Gold	2,000 (D)	ND	ND	ND	ND	50
4th	3	B-55-FAC-HS-PER-417-03072024	Perimeter	417	Hot Supply Duct	Insulation Facing	Black	490 (D)	ND	ND	ND	ND	50
4111	4	B-58-ISEA-HS-PER-402S-03072024	Perimeter	402S	Hot Supply Duct	Insulation Sealant	Gold	25,000 (D)	ND	ND	ND	ND	50
	4	B-57-FAC-HS-PER-402S-03072024	Perimeter	402S	Hot Supply Duct	Insulation Facing	Black	240 (D)	ND	ND	ND	ND	50
		B-16-500-FIL-01052024	Perimeter	500	Windowsill Supply Grille	Pleated Air Filter	White	250 (D)	ND	ND	ND	ND	50
		B-60-ISEA-HS-PER-502O-03072024	Perimeter	502O	Hot Supply Duct	Insulation Sealant	Gold	20,000 (D)	ND	ND	ND	ND	50
		B-59-FAC-HS-PER-502O-03072024	Perimeter	502O	Hot Supply Duct	Insulation Facing	Black	380 (D)	ND	ND	ND	ND	50
		B-10-510-ADH-01052024	Interior	510	Mixed Air Supply Duct	Insulation Sealant	Gold	53,000 (D)	ND	ND	ND	ND	50
5.1		B-11-510-COAT-01052024	Interior	510	Mixed Air Supply Duct	Insulation Facing	Black	1,300 (D)	ND	ND	ND	ND	50
5th	4	B-09-510-INS-01052024	Interior	510	Mixed Air Supply Duct	Insulation Fibers	Yellow	310 (D)	ND	ND	ND	ND	50
		B-06-510E-ADH-01052024	Interior	510E	Mixing Box Access Panel	Insulation Adhesive	Yellow	770 (D)	ND	ND	ND	ND	50
		B-07-510E-INS-01052024	Interior	510E	Mixing Box Access Panel	Insulation Fibers	Yellow	0.91	ND	ND	ND	ND	50
		DUP-08-510E-INS-01052024	Interior	510E	Mixing Box Access Panel	Insulation Fibers	Yellow	1.6	ND	ND	ND	ND	50
		B-05-510S-ADH-01052024	Interior	510S	Mixing Box Access Panel	Insulation Adhesive	Pink	260 (D)	ND	ND	ND	ND	50

Notes.

Sample ID Nomenclature (Jan 2024): Bulk Sample-Sample Number-Material Type-Sample Room Number-Sample Date (B.##-TYPE-###-mmddyyyy)

Sample ID Nomenclature (March 2024): Bulk Sample-Sample Number-Material Type-Type of Duct-Building Location-Sample Room Number-Sample Date (B.##-TYPE-TYPE-LOC-###-mmddyyyy)

Toxic Substances Control Act (TCSA) states materials that contains ≥ 50 mg/kg PCB are unauthorized for use and must be removed and disposed of as PCB bulk product

Values in bold exceed TCSA criteria for bulk PCBs HVAC - Heating, Ventilation, and Air Conditioning

PCB - Polychlorinated Biphenyls
mg/kg - Milligrams of PCBs per kilogram of material
AHU - Air Handling Unit

(D) - Analyte was reported from a dilution run

Table 2. Summary of Detected PCB Aroclors in Bulk Material Samples Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Building Location	Room	Sample Location	Type of Material Sampled	Material Color	Aroclor-1262 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1260 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1016, Aroclor- 1221, Aroclor-1232, Aroclor-1248, & Aroclor-1268 (mg/kg)	TSCA "PCB Bulk Product Waste" criterium (mg/kg)
		B-54-ISEA-HS-PER-520B-03072024	Perimeter	520B	Hot Supply Duct	Insulation Sealant	Gold	4,200 (D)	ND	ND	ND	ND	50
		B-53-FAC-HS-PER-520B-03072024	Perimeter	520B	Hot Supply Duct	Insulation Facing	Black	310 (D)	ND	ND	ND	ND	50
		B-12-520E-INS-01052024	Perimeter	520E	Mixing Box Access Panel	Insulation Fibers	Yellow	1.3	ND	ND	ND	ND	50
5th	3	B-13-526-INS-01052024	Interior	526	Return Duct Exterior	Insulation Fibers	Yellow	18 (D)	ND	ND	ND	ND	50
		B-14-526-SXR-01052024	Interior	526	Hot Supply Duct	Duct Sealant	Red	240 (D)	ND	ND	ND	ND	50
		B-15-528-FIL-01052024	Perimeter	528	Windowsill Supply Grille	Pleated Air Filter	White	71 (D)	ND	ND	ND	ND	50
		B-35-ISEA-CS-PER-602F-03062024	Perimeter	602F	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	16,000 (D)	ND	ND	ND	ND	50
		B-34-FAC-CS-PER-602F-03062024	Perimeter	602F	Cold Supply Duct	Insulation Facing	Black	860 (D)	ND	ND	ND	ND	50
		B-37-ISEA-CS-PER-602M-03062024	Perimeter	602M	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	19,000 (D)	ND	ND	ND	ND	50
		B-36-FAC-CS-PER-602M-03062024	Perimeter	602M	Cold Supply Duct	Insulation Facing	Black	1,000 (D)	ND	ND	ND	ND	50
		B-52-ISEA-HS-INT-607-03062024	Interior	607 (hallway)	Hot Supply Duct	Insulation Sealant	Gold	11,000 (D)	ND	ND	ND	ND	50
	4	B-51-FAC-HS-INT-607-03062024	Interior	607 (hallway)	Hot Supply Duct	Insulation Facing	Black	290 (D)	ND	ND	ND	ND	50
		B-50-ISEA-CS-INT-607-03062024	Interior	607 (hallway)	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	48,000 (D)	ND	ND	ND	ND	50
		B-49-FAC-CS-INT-607-03062024	Interior	607 (hallway)	Cold Supply Duct	Insulation Facing	Black	2,400 (D)	ND	ND	ND	ND	50
		B-39-ISEA-CS-PER-608D-03062024	Perimeter	608D	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	23,000 (D)	ND	ND	ND	ND	50
		B-38-FAC-CS-PER-608D-03062024	Perimeter	608D	Cold Supply Duct	Insulation Facing	Black	1,600 (D)	ND	ND	ND	ND	50
		B-75-FIL-MB-PER-608M-03082024	Perimeter	608M	Windowsill Supply Grille	Pleated Air Filter	White	280 (D)	ND	ND	ND	ND	50
	-	B-76-FIL-MB-PER-625-03082024	Perimeter	625	Windowsill Supply Grille	Pleated Air Filter	White	75 (D)	ND	ND	ND	ND	50
		B-45-ISEA-HS-INT-630-03062024	Interior	630 (hallway)	Hot Supply Duct	Insulation Sealant	Gold	2,000 (D)	ND	ND	ND	ND	50
6th		B-44-FAC-HS-INT-630-03062024	Interior	630 (hallway)	Hot Supply Duct	Insulation Facing	Black	200 (D)	ND	ND	ND	ND	50
		B-43-ISEA-CS-INT-630-03062024	Interior	630 (hallway)	Cold Supply Duct	Insulation Sealant	Gold	6,300 (D)	ND	ND	ND	ND	50
		B-42-FAC-CS-INT-630-03062024	Interior	630 (hallway)	Cold Supply Duct	Insulation Facing	Black	1,900 (D)	ND	ND	ND	ND	50
		B-48-ISEA-MB-INT-634A-03062024	Interior	634A (hallway)	Mixed Air Supply Duct	Insulation Sealant	Red	280 (D)	ND	ND	ND	ND	50
		B-47-ISEA-MB-INT-634A-03062024	Interior	634A (hallway)	Mixed Air Supply Duct	Insulation Sealant	Gold	32,000 (D)	ND	ND	ND	ND	50
		B-46-FAC-MB-INT-634A-03062024	Interior	634A (hallway)	Mixed Air Supply Duct	Insulation Facing	Black	560 (D)	ND	ND	ND	ND	50
	3	B-31-ISEA-CS-PER-635-03062024	Perimeter	635	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	12,000 (D)	ND	ND	ND	ND	50
		B-30-FAC-CS-PER-635-03062024	Perimeter	635	Cold Supply Duct	Insulation Facing	Black	1,100 (D)	ND	ND	ND	ND	50
		B-33-ISEA-CS-PER-636-03062024	Perimeter	636	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	22,000 (D)	ND	ND	ND	ND	50
		B-32-FAC-CS-PER-636-03062024	Perimeter	636	Cold Supply Duct	Insulation Facing	Black	1,100 (D)	ND	ND	ND	ND	50
		B-41-ISEA-MB-INT-638-03062024	Interior	638	Mixed Air Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	13,000 (D)	ND	ND	ND	ND	50
		B-40-FAC-MB-INT-638-03062024	Interior	638	Mixed Air Supply Duct	Insulation Facing	Black	870 (D)	ND	ND	ND	ND	50
		B-29-ISEA-CS-PER-640C-03062024	Perimeter	640C	Cold Supply Duct	Insulation Sealant	Red Overlayed on Gold (Mix)	18,000 (D)	ND	ND	ND	ND	50
		B-28-FAC-CS-PER-640C-03062024	Perimeter	640C	Cold Supply Duct	Insulation Facing	Black	820 (D)	ND	ND	ND	ND	50
7th	4	B-17-724-FIL-01052024	Perimeter	724 736	Windowsill Supply Grille	Pleated Air Filter	Blue	570 (D)	ND ND	ND ND	ND ND	ND ND	50 50
	3	B-18-736-FIL-01052024 B-87-FIL-RD-PER-P1003-03082024	Perimeter Penthouse	P1003	Windowsill Supply Grille AHU 6 Return	Pleated Air Filter Pocket Filter	Blue Pink	400 (D) 110 (D)	ND ND	ND ND	ND ND	ND ND	50
		B-86-FIL-RD-PER-P1003-03082024	Penthouse	P1004	AHU 6 Return	Pleated Air Filter	White	11 (D)	ND	ND	ND	ND	50
	4	B-85-FIL-RD-PER-P1003-03082024	Penthouse	P1003	AHU 5 Return	Pocket Filter	Pink	340 (D)	ND	ND	ND	ND	50
		B-84-FIL-RD-PER-P1003-03082024	Penthouse	P1003	AHU 5 Return	Pleated Air Filter	White	21 (D)	ND	ND	ND	ND	50
Roof		B-81-FIL-RD-PER-P1004-03082024	Penthouse	P1004	AHU 4 Return	Pocket Filter	Pink	140 (D)	ND	ND	ND	ND	50
		B-80-FIL-RD-PER-P1004-03082024	Penthouse	P1004	AHU 4 Return	Pleated Air Filter	White	88 (D)	ND	ND	ND	ND	50
	3	B-83-FIL-RD-PER-P1004-03082024	Penthouse	P1004	AHU 3 Return	Pocket Filter	Green	120 (D)	ND	ND	ND	ND	50
		B-82-FIL-RD-PER-P1004-03082024	Penthouse	P1004	AHU 3 Return	Pleated Air Filter	White	25 (D)	ND	ND	ND	ND	50
lotes:								(-)					

Sample ID Nomenclature (Jan 2024): Bulk Sample-Sample Number-Material Type-Sample Room Number-Sample Date (B-##-TYPE-###-mmddyyyy)
Sample ID Nomenclature (March 2024): Bulk Sample-Sample Number-Material Type-Type of Duct-Building Location-Sample Room Number-Sample Date (B-##-TYPE-TYPE-LOC-###-mmddyyyy)
Toxic Substances Control Act (TCSA) states materials that contains ≥ 50 mg/kg PCB are unauthorized for use and must be removed and disposed of as PCB bulk product
Values in bold exceed TCSA criteria for bulk PCBs

HVAC - Heating, Ventilation, and Air Conditioning

PCB - Polychlorinated Biphenyls mg/kg - Miliigrams of PCBs per kilogram of material

AHU - Air Handling Unit
(D) - Analyte was reported from a dilution run

Table 3. Summary of Aroclor-1262 in Bulk Material Samples Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Туј	oe of Material Sampled	Average Aroclor- 1262 (mg/kg)	Minimum Aroclor- 1262 (mg/kg)	Maximum Aroclor- 1262 (mg/kg)	Number of Samples	Detection Frequency	TSCA "PCB Bulk Product Waste" criterion (mg/kg)
	All Colors	14,485	11	53,000	39	100%	50
ants	Gold	15,169	900	53,000	20	100%	50
Insulation Sealants	Red Overlayed on Gold (Mix)	18,552	330	48,000	14	100%	50
latio	Red	395	280	510	2	100%	50
Insu	Black	495	220	770	2	100%	50
	Gray	11	11	11	1	100%	50
Insulation Facing*		2,762	82	24,000	36	100%	50
	Insulation Adhesive	515	260	770	3	75%	50
Exterior Duct Sealants	Red	240	240	240	1	100%	50
Exte Du Seal	Gray	19	19	19	1	100%	50
u o	Yellow fibers – AHU fan box	480	480	480	1	100%	50
Insulation Fibers	Yellow fibers – Supply Duct Interior	310	310	310	1	100%	50
ď	Yellow fibers – Exterior to duct	5	1	18	4	100%	50
Š	Pleated - Supply diffuser	227	50	570	8	100%	50
Filters	Pocket - AHU return	170	110	340	6	100%	50
<u> </u>	Pleated - AHU return	49	11	93	6	100%	50
I	ndoor Window Caulk	103	46	190	4	100%	50
Foamb	oard Construction Adhesive	8	8	8	1	100%	50

Notes:

TCSA - Toxic Substances Control Act

Values in bold exceed TCSA criterion for bulk PCBs

PCB - Polychlorinated Biphenyls

mg/kg - miliigrams of PCBs per kilogram of material

AHU - Air Handling Unit

^{*3} samples reported concentrations of 24,000, 24,000, & 21,000 mg/kg (see Table 2). If excluded the statistics are 903 mg/kg (average), 75 mg/kg (minimum), & 2,300 (maximum)

Table 4. Summary of Aroclor-1262 in Select Bulk Materials per HVAC Zone Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

				Aroclor-1262 (r	ng/kg)
Type of Material Sampled	Statistic	HVAC Zone 1	HVAC Zone 2	HVAC Zone 3	HVAC Zone 4
	Average	12,700	15,025	9,374	25,923
Gold & Red Overlayed on	Minimum	1,400	2100	330	11,000
Gold (Mix) Insulation Sealants	Maximum	24,000	24,000	32,000	53,000
	N	2	4	15	13
	Average	541	723	4,795	1,073
I 16 F	Minimum	82	210	200	240
Insulation Facing	Maximum	1,000	1,200	24,000	2,400
	N	2	4	17	13
	Average	N/A	N/A	149	305
Disease d Committee Files	Minimum	N/A	N/A	50	120
Pleated Supply Filters	Maximum	N/A	N/A	400	570
	N	N/A	N/A	4	4
Pleated Return Filters	Average	AHU 1: 93	AHU 2: 54	AHU 3: 25 AHU 4: 88	AHU 5: 21 AHU 6: 11
	N	1	1	2	2
Pocket Return Filters	Average	AHU 1: 160	AHU 2: 150	AHU 3: 120 AHU 4: 140	AHU 5: 340 AHU 6: 110
	N	1	1	2	2

Notes:

Largest concentration for each category are in bold. HVAC: Heating, Ventilation, and Air Conditioning

AHU: Air Handling Unit

mg/kg - miliigrams of PCBs per kilogram of material

N - number of samples

N/A - Not Applicable (supply vent diffusers on 1^{st} and 2^{nd} floor did not contain filters.)

Table 5 - Summary of Detected PCB Aroclors in Air samples, December 2023 and April 2024 Indoor Environmental Investigation Report - Second Phase Poe Hall, NCSU - Raleigh, NC

					First Phase	, December 2023 (HVAC Off)			Second Ph	nase, April 2024 (HVAC On)		US EPA	A Exposur	e Levels f	or Evaluat	ting PCBs i	n School In	idoor Air
Floor	HVAC Circulation Zone	Room Number	Room Type	Room Temperature (°F)	Sample-ID	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 concentration (μg/m³)	Aroclor-1262 Concentration (μg/m³)	Room Temperature (°F)	Sample-ID	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 concentration (µg/m³)	Aroclor-1262 Concentration (μg/m³)	Age: 1 - <2 yr	Age: 2 - <3 yr	Age: 3 - <6 yr	(μg/m ³) Age: 6 - <12 yr	Age: 12 - <15 yr	Age: 15 - <19 yr	Adult >19 yr
	1	106	Laboratory	59.1	A-13-106- 122123	< RL	0.0193	67.6	A-13-106-042424	< RL	0.0766	0.100	0.100	0.200	0.300	0.500	0.600	0.500
1st	1	106 (dup)	Laboratory	59.1	DUP-01-122123	< RL	0.0131	67.6	DUP-01-106- 042424	< RL	0.0905	0.100	0.100	0.200	0.300	0.500	0.600	0.500
	2	117	Laboratory	NR	A-15-117- 122223	< RL	0.0436	71.0	A-15-117-042424	< RL	0.104	0.100	0.100	0.200	0.300	0.500	0.600	0.500
2nd	2	209	Classroom	58.6	A-11-209- 122123	< RL	0.0341	68.8	A-11-209-042424	< RL	0.125	0.100	0.100	0.200	0.300	0.500	0.600	0.500
ZIIG	1	228	Classroom	57.1	A-12-228- 122123	< RL	0.0250	69.2	A-12-228-042424	< RL	0.1170	0.100	0.100	0.200	0.300	0.500	0.600	0.500
3rd	4	216	Auditorium	NR	A-01-216- 122223	< RL	0.0704	70.0	A-01-216-042424	< RL	0.133	0.100	0.100	0.200	0.300	0.500	0.600	0.500
Sru	3	317F	Office	60.3	A-02-317F- 122123	< RL	0.0285	69.5	A-02-317F- 042424	< RL	0.109	0.100	0.100	0.200	0.300	0.500	0.600	0.500
	3	400	Classroom	65.6	A-10-400- 122123	< RL	0.0457	69.9	A-10-400-042424	< RL	0.119	0.100	0.100	0.200	0.300	0.500	0.600	0.500
4th	4	402G	Office	56.0	A-09-402G- 122123	< RL	0.0384	68.4	A-09-402G- 042624	< RL	0.155	0.100	0.100	0.200	0.300	0.500	0.600	0.500
	4	402G (dup)	Office	56.0	N/A	NM	NM	68.4	DUP-02-402G- 042624	< RL	0.145	0.100	0.100	0.200	0.300	0.500	0.600	0.500
5th	4	510E	Office	66.9	A-07-510E- 122123	< RL	0.0794	68.3	A-07-510E- 042424	< RL	0.0981	0.100	0.100	0.200	0.300	0.500	0.600	0.500
3th	3	526	Bathroom	64.2	A-08-526- 122123	< RL	0.0451	69.6	A-08-526-042424	< RL	0.0972	0.100	0.100	0.200	0.300	0.500	0.600	0.500
6th	4	608J	Office	65.1	A-05-608J- 122123	< RL	0.121	67.9	A-05-608J- 042424	< RL	0.133	0.100	0.100	0.200	0.300	0.500	0.600	0.500
om	3	635	Laboratory	60.5	A-06-635- 122123	< RL	0.0333	69.1	A-06-635-042424	< RL	0.132	0.100	0.100	0.200	0.300	0.500	0.600	0.500
	4	714B	Office	67.2	A-04-714B- 122123	< RL	0.108	67.5	A-04-714B- 042424	< RL	0.153	0.100	0.100	0.200	0.300	0.500	0.600	0.500
7th	3	742	Laboratory	NR	A-03-742- 122223	< RL	0.0677	70.2	A-03-742-042424	< RL	0.0879	0.100	0.100	0.200	0.300	0.500	0.600	0.500
	3	742 (dup)	Laboratory	NR	N/A	NM	NM	70.2	DUP-03-742- 042424	< RL	0.0798	0.100	0.100	0.200	0.300	0.500	0.600	0.500
Roof	N/A	N/A	Outdoor air	69.8	A-14-ROOF- 122123	< RL	< RL	60.7	A-14-ROOF- 042424	< RL	< RL	0.100	0.100	0.200	0.300	0.500	0.600	0.500

¹Exposure Levels for Evaluating Polychlorinated Biphenyls (PCBs) in Indoor School Air | US EPA

 $Sample\ ID\ nomenclature: Air\ Sample-Sample\ Number-Sample\ Room\ Number-Sample\ Date\ (A-\#\#-\#\#\#-mmddyy)\ HVAC: heating,\ ventilation\ and\ air\ conditioning$

°F: degrees fahrenheit

μg/m³ = micrograms per cubic meter

US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) ranges from 0.00659 to 0.00700 $\mu g/m^3$.

< RL: analyte was not detected at or above the reporting limit.

NM: Not measured

NR: Not recorded

N/A: Not applicable

Exposure levels are rounded to the nearest 0.1 micrograms per cubic meter.

HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

Table 6 – Summary of Aroclor-1262 Air Sample Results Organized by Building Zones, December 2023 and April 2024 Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Building Zones	First	First Phase, December 2023 Second Phase, April 2024			
Floors	Average Aroclor-1262 HVAC Status Concentration in Indoor Air Samples (μg/m³)		HVAC Status	Average Aroclor-1262 Concentration in Indoor Air Samples (μg/m³)	
1 to 2	Off	0.027	On, Occupied Mode	0.103	
3 to 7	Off	Off 0.064		0.120	
HVAC Circulation Zone	HVAC Status	Average Aroclor-1262 Concentration in Indoor Air Samples (µg/m³)	HVAC Status	Average Aroclor-1262 Concentration in Indoor Air Samples (μg/m³)	
1	Off	0.019	On, Occupied Mode	0.095	
2	Off	0.039	On, Occupied Mode	0.115	
3	Off	0.044	On, Occupied Mode	0.104	
4	Off	0.083	On, Occupied Mode	0.136	

Notes:

HVAC: Heating, Ventilation, and Air Conditioning

 $\mu g/m3 = micrograms per cubic meter$

Occupied Mode - operating mode used when Poe Hall was in service and fully occupied.

The method reporting limit (RL) ranges from 0.00659 to $0.00700 \mu g/m^3$.

< RL: analyte was not detected at or above the reporting limit.

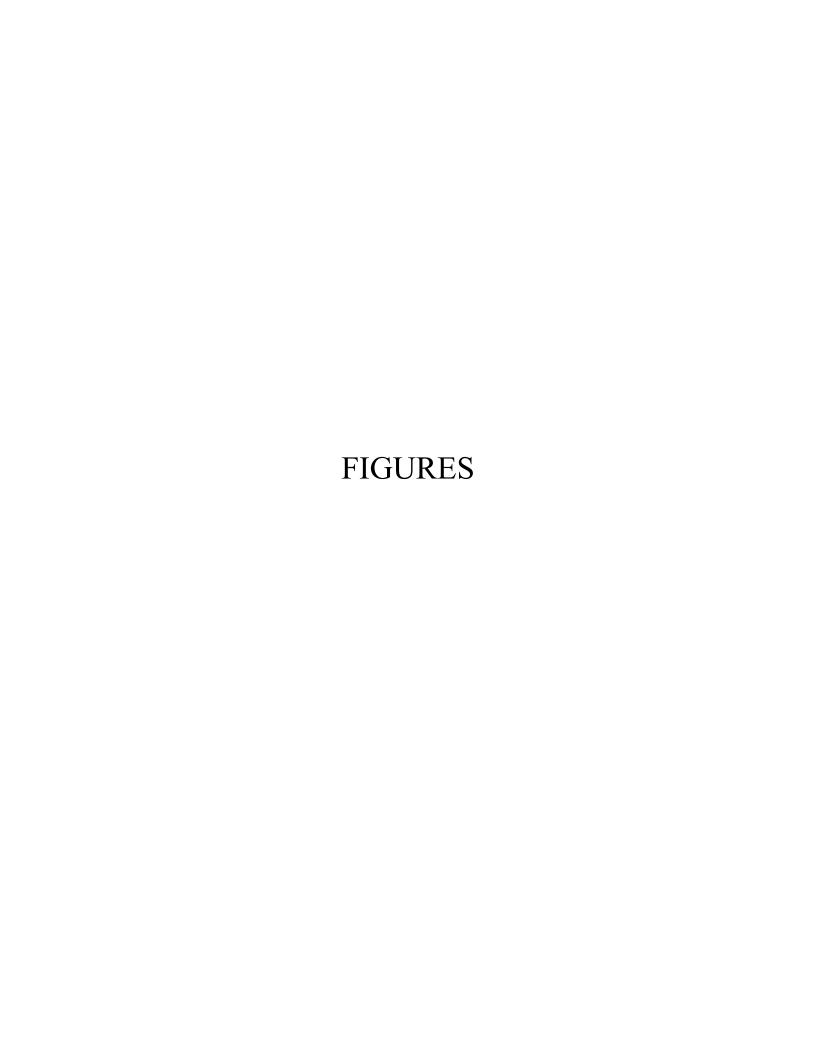
HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

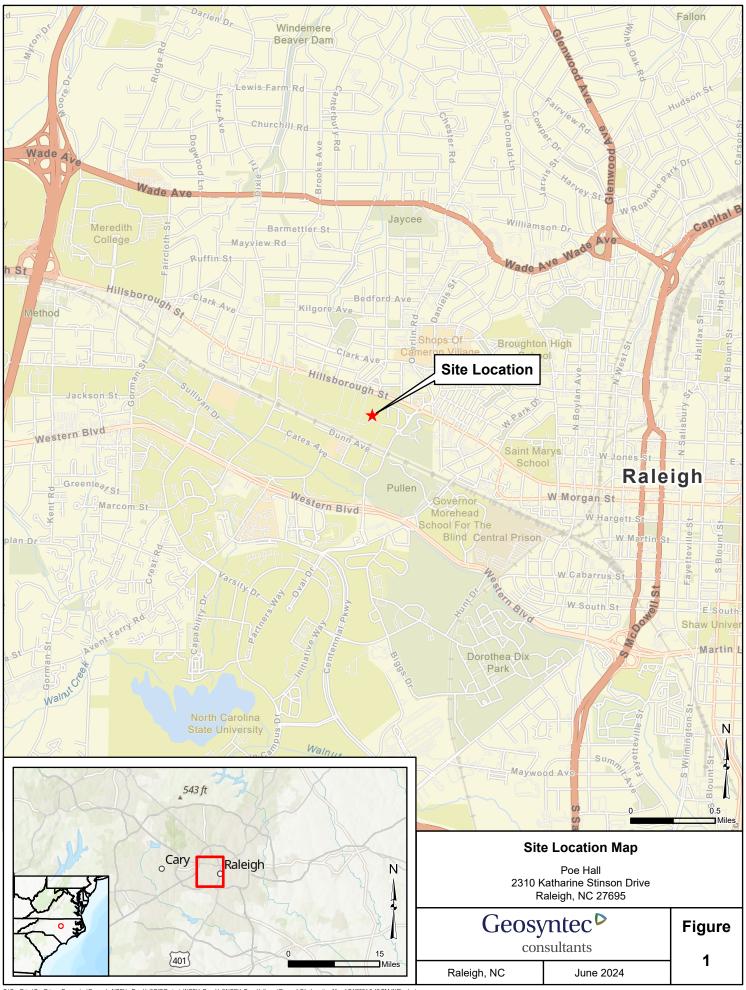
Floors 1 to 2 are serviced by HVAC circulation zones 1 & 2

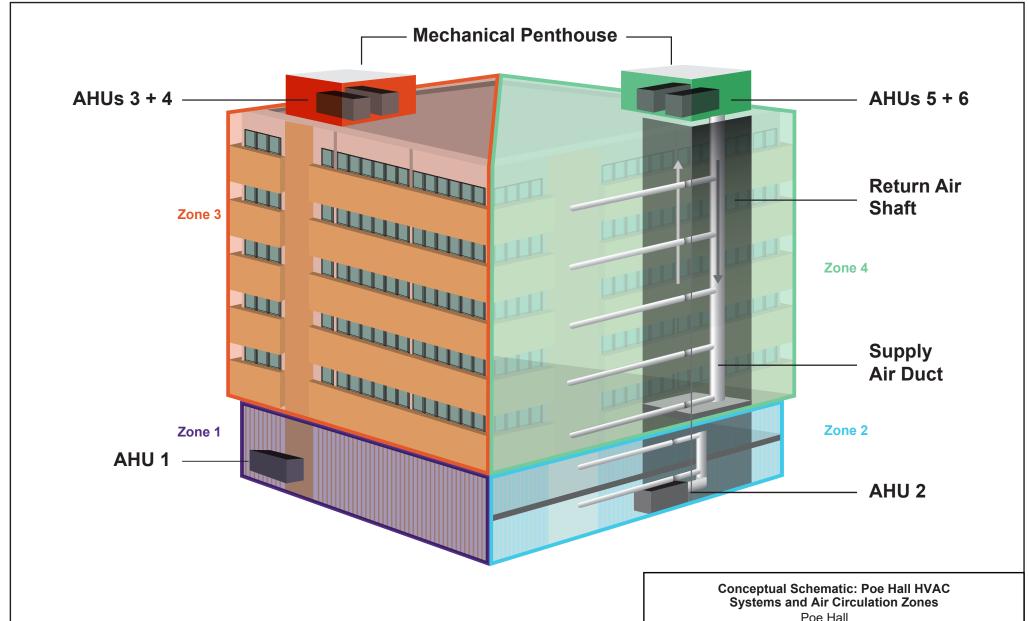
Floors 3 to 7 are serviced by HVAC circulation zones 3 & 4

Temperatures inside sampled rooms on floors 1-2 ranged from 57.1°F to 59.1°F in December 2023 (HVAC Off) and from 67.6°F to 71.0°F in April 2024 (HVAC On)

Temperatures inside sampled rooms on floors 3-7 ranged from 56.0°F to 67.2°F in December 2023 (HVAC Off) and from 67.5°F to 70.2°F in April 2024 (HVAC On)







The computing center on the first floor, located in Zone 2, has an independent heating, ventilation and air conditioning system.

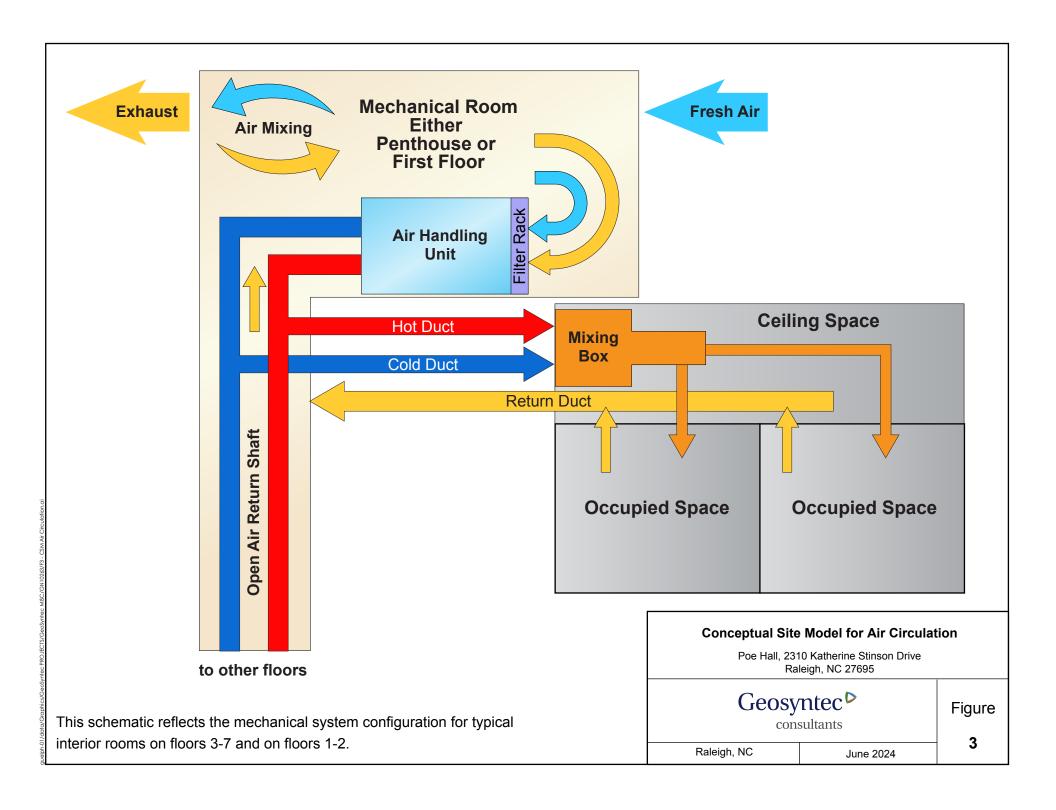
Poe Hall 2310 Katherine Stinson Drive, Raleigh, NC 27695

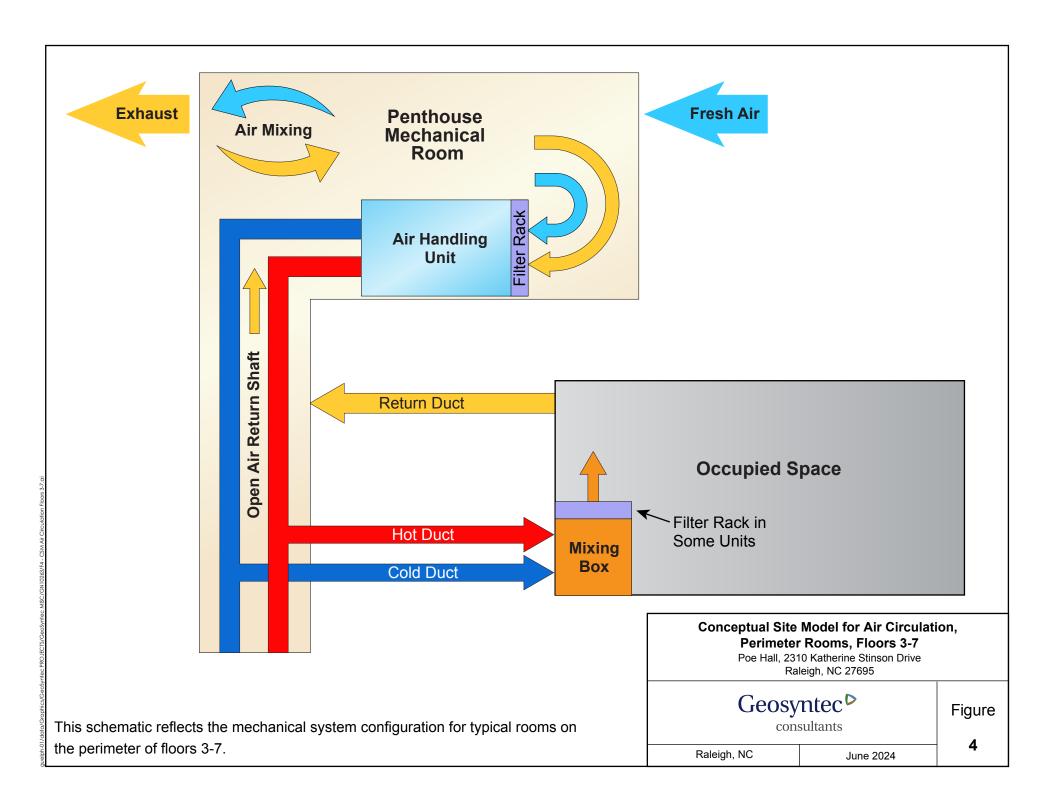
Geosyntec[▶] consultants

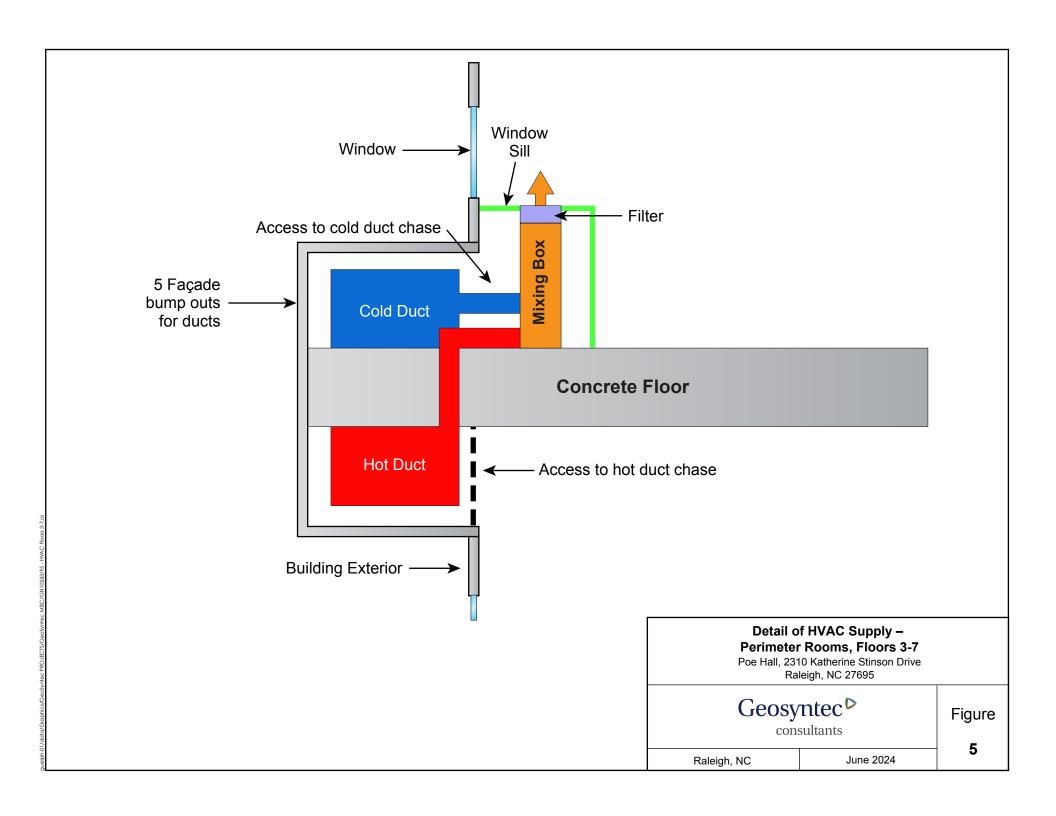
Figure 2

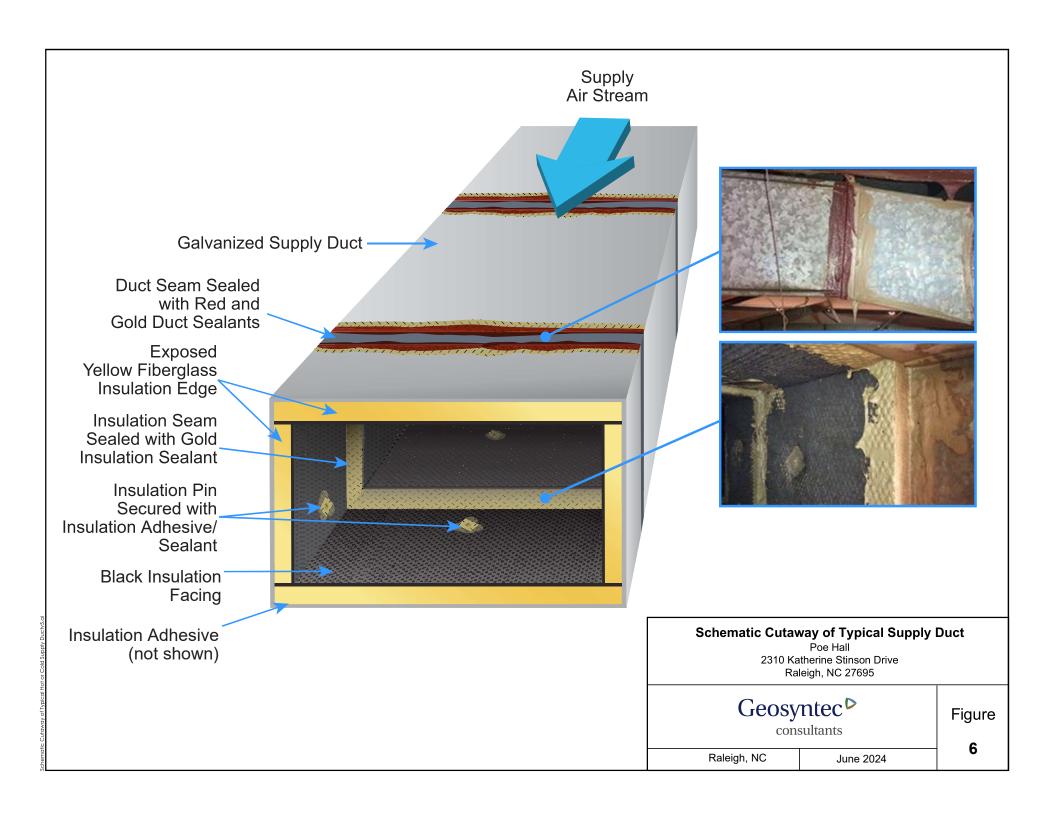
Raleigh, NC

June 2024











- Geosyntec Air Sample
- Geosyntec Surface Wipe Sample
- Geosyntec Bulk Sample insulation materials collected from inside supply ducts or air handlers
- Geosyntec Bulk Sample air filters collected from supply grilles in perimeter rooms or air handler filter racks
- Geosyntec Bulk Sample insulation materials collected from the exterior of ducts or air handlers
- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



This map has been redacted to display only rooms where environmental samples were collected. Areas where no samples were collected are not shown. Not to scale.

Notes: DUP - a duplicate sample was collected at this location Markers represent general sample locations, not precise positions in the room Insulation materials collected inside ducts at the same general location are

represented by a single marker
Air filters collected from the same or adjacent air handlers are represented by a single

Geosyntec collect air samples in December 2023 and April 2024

Geosyntec collected wipe samples in December 2023 Geosyntec collected bulk samples January 2024 and March 2024 NCSU collected air samples in November 2023

NCSU collected wipe samples in November 2023

NCSU collected bulk samples April 2018, October 2023, and November 2023

First Floor Sample Location Map

Poe Hall, 2310 Katherine Stinson Drive Raleigh, NC 27695

Geosyntec ^D

Raleigh, NC

consultants

June 2024

Figure

7a



- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



Second Floor Sample Location Map

Poe Hall, 2310 Katherine Stinson Drive Raleigh, NC 27695

Geosy	ntec Sultants	Figure 7b
Raleigh, NC	June 2024] /5

are not shown. Not to scale.

Notes: DUP - a duplicate sample was collected at this location Markers represent general sample locations, not precise positions in the room Insulation materials collected inside ducts at the same general location are

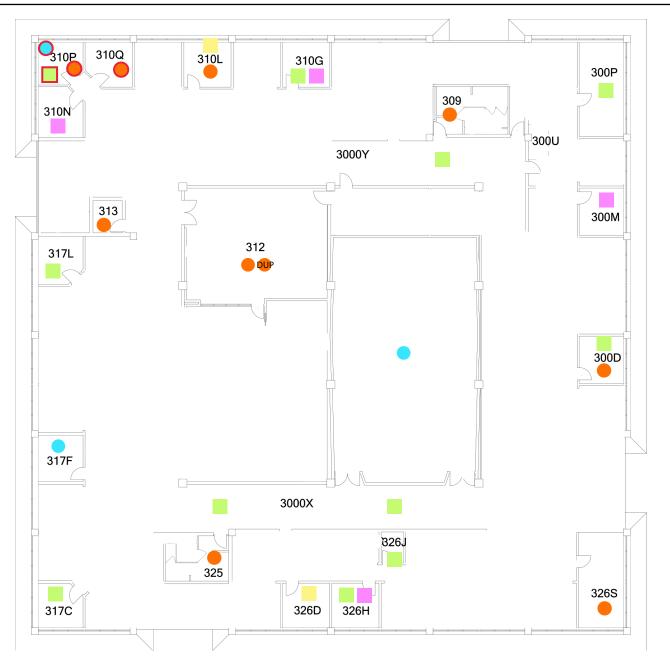
represented by a single marker
Air filters collected from the same or adjacent air handlers are represented by a single

Geosyntec collect air samples in December 2023 and April 2024

Geosyntec collected wipe samples in December 2023

Geosyntec collected bulk samples January 2024 and March 2024 NCSU collected air samples in November 2023

NCSU collected wipe samples in November 2023 NCSU collected bulk samples April 2018, October 2023, and November 2023



- Geosyntec Air Sample
- Geosyntec Surface Wipe Sample
- Geosyntec Bulk Sample insulation materials collected from inside supply ducts or air handlers
- Geosyntec Bulk Sample air filters collected from supply grilles in perimeter rooms or air handler filter racks
- Geosyntec Bulk Sample insulation materials collected from the exterior of ducts or air handlers
- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



This map has been redacted to display only rooms where environmental samples were collected. Areas where no samples were collected are not shown. Not to scale.

Notes: DUP - a duplicate sample was collected at this location Markers represent general sample locations, not precise positions in the room Insulation materials collected inside ducts at the same general location are

represented by a single marker
Air filters collected from the same or adjacent air handlers are represented by a single

Geosyntec collect air samples in December 2023 and April 2024

Geosyntec collected wipe samples in December 2023

Geosyntec collected bulk samples January 2024 and March 2024 NCSU collected air samples in November 2023

NCSU collected wipe samples in November 2023

NCSU collected bulk samples April 2018, October 2023, and November 2023

Third Floor Sample Location Map

Poe Hall, 2310 Katherine Stinson Drive Raleigh, NC 27695

June 2024

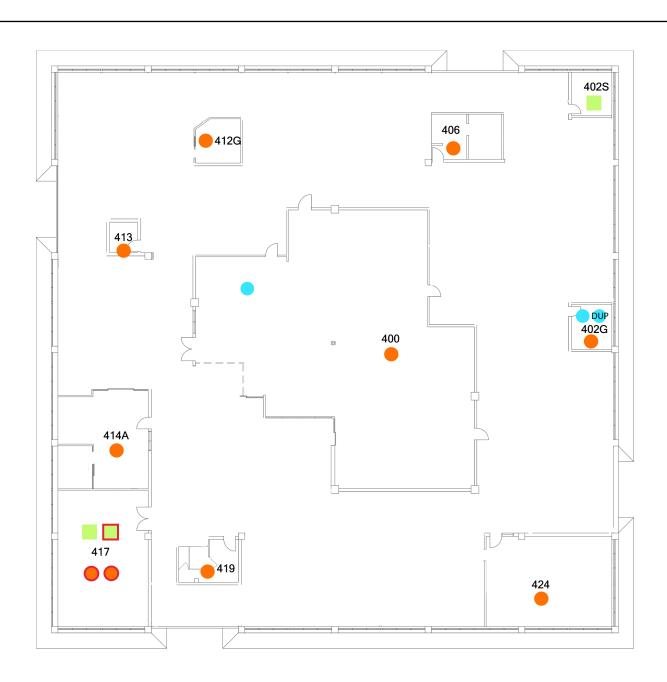
Geosy	ntec▷

consultants

Figure

7c

Raleigh, NC



- Geosyntec Air Sample
- Geosyntec Surface Wipe Sample
- Geosyntec Bulk Sample insulation materials collected from inside supply ducts or air handlers
- Geosyntec Bulk Sample air filters collected from supply grilles in perimeter rooms or air handler filter racks
- Geosyntec Bulk Sample insulation materials collected from the exterior of ducts or air handlers
- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



This map has been redacted to display only rooms where environmental samples were collected. Areas where no samples were collected are not shown. Not to scale.

Notes: DUP - a duplicate sample was collected at this location Markers represent general sample locations, not precise positions in the room Insulation materials collected inside ducts at the same general location are

represented by a single marker
Air filters collected from the same or adjacent air handlers are represented by a single

Geosyntec collect air samples in December 2023 and April 2024

Geosyntec collected wipe samples in December 2023

Geosyntec collected bulk samples January 2024 and March 2024

NCSÚ collected air samples in November 2023 NCSU collected wipe samples in November 2023

NCSU collected bulk samples April 2018, October 2023, and November 2023

Fourth Floor Sample Location Map

Poe Hall, 2310 Katherine Stinson Drive Raleigh, NC 27695

Geosyntec^D

consultants

Raleigh, NC June 2024 **Figure**

7d



- Geosyntec Air Sample
- Geosyntec Surface Wipe Sample
- Geosyntec Bulk Sample insulation materials collected from inside supply ducts or air handlers
- Geosyntec Bulk Sample air filters collected from supply grilles in perimeter rooms or air handler filter racks
- Geosyntec Bulk Sample insulation materials collected from the exterior of ducts or air handlers
- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



collected. Areas where no samples were collected

Fifth Floor Sample Location Map

are not shown. Not to scale.

Poe Hall. 2310 Katherine Stinson Drive Raleigh, NC 27695

Geosyntec^D **Figure** consultants 7e Raleigh, NC June 2024

Notes: DUP - a duplicate sample was collected at this location Markers represent general sample locations, not precise positions in the room Insulation materials collected inside ducts at the same general location are

represented by a single marker
Air filters collected from the same or adjacent air handlers are represented by a single

Geosyntec collect air samples in December 2023 and April 2024

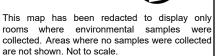
Geosyntec collected wipe samples in December 2023 Geosyntec collected bulk samples January 2024 and March 2024

NCSÚ collected air samples in November 2023

NCSU collected wipe samples in November 2023 NCSU collected bulk samples April 2018, October 2023, and November 2023



- Geosyntec Air Sample
- Geosyntec Surface Wipe Sample
- Geosyntec Bulk Sample insulation materials collected from inside supply ducts or air handlers
- Geosyntec Bulk Sample air filters collected from supply grilles in perimeter rooms or air handler filter racks
- Geosyntec Bulk Sample insulation materials collected from the exterior of ducts or air handlers
- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



Markers represent general sample locations, not precise positions in the room Insulation materials collected inside ducts at the same general location are

Air filters collected from the same or adjacent air handlers are represented by a single marker

Geosyntec collect air samples in December 2023 and April 2024

Geosyntec collected wipe samples in December 2023 Geosyntec collected bulk samples January 2024 and March 2024

NCSÚ collected air samples in November 2023

NCSU collected wipe samples in November 2023 NCSU collected by samples in November 2023 NCSU collected bulk samples April 2018, October 2023, and November 2023

Sixth Floor Sample Location Map

Poe Hall, 2310 Katherine Stinson Drive Raleigh, NC 27695

Geosyntec C	

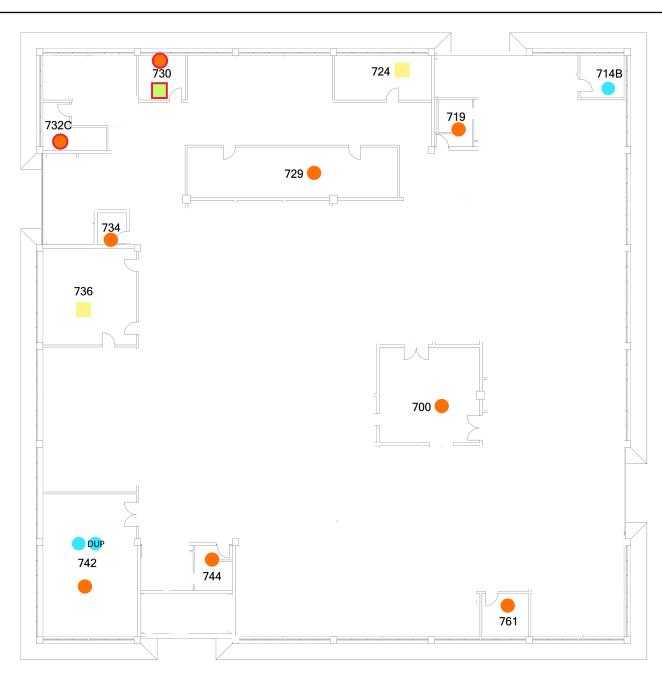
Raleigh, NC

consultants

June 2024

7f

Figure



- Geosyntec Air Sample
- Geosyntec Surface Wipe Sample
- Geosyntec Bulk Sample insulation materials collected from inside supply ducts or air handlers
- Geosyntec Bulk Sample air filters collected from supply grilles in perimeter rooms or air handler filter racks
- Geosyntec Bulk Sample insulation materials collected from the exterior of ducts or air handlers
- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



collected. Areas where no samples were collected

Seventh Floor Sample Location Map

are not shown. Not to scale.

Poe Hall, 2310 Katherine Stinson Drive Raleigh, NC 27695

Geosyntec^D

Figure

7g

consultants

0 0 110 0 110 0 110

Geosyntec collected wipe samples in December 2023 Geosyntec collected bulk samples January 2024 and March 2024 NCSU collected air samples in November 2023

Geosyntec collect air samples in December 2023 and April 2024

NCSU collected wipe samples in November 2023 NCSU collected bulk samples April 2018, October 2023, and November 2023

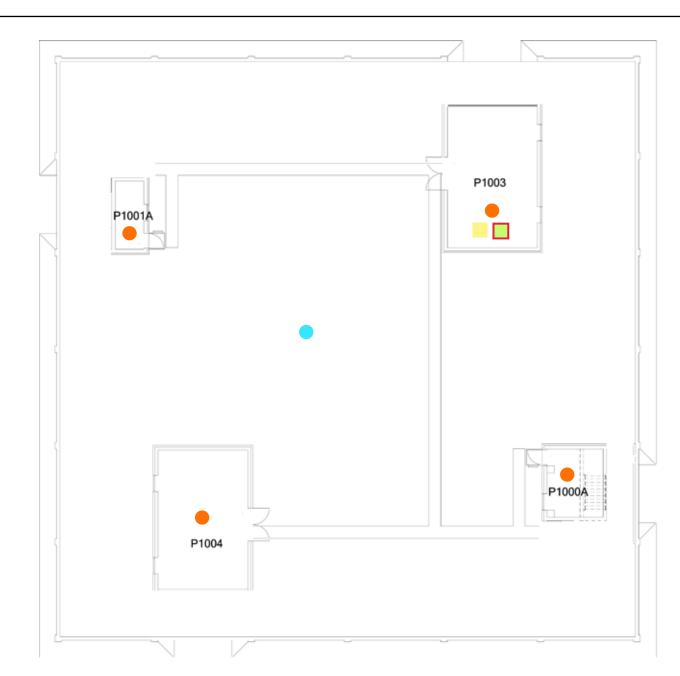
Notes: DUP - a duplicate sample was collected at this location Markers represent general sample locations, not precise positions in the room

Insulation materials collected inside ducts at the same general location are represented by a single marker

Air filters collected from the same or adjacent air handlers are represented by a single

jure 7g.ai

Raleigh, NC June 2024



- Geosyntec Air Sample
- Geosyntec Surface Wipe Sample
- Geosyntec Bulk Sample insulation materials collected from inside supply ducts or air handlers
- Geosyntec Bulk Sample air filters collected from supply grilles in perimeter rooms or air handler filter racks
- Geosyntec Bulk Sample insulation materials collected from the exterior of ducts or air handlers
- Geosyntec Bulk Sample window or panel caulk collected from inside the building
- NCSU Air/Surface/Bulk Sample markers with red borders represent a sample collected by NCSU. Marker fill colors for each sample type is consistent with Geosyntec sample markers



Notes

Markers represent general sample locations, not precise positions in the room Insulation materials collected inside ducts at the same general location are represented by a single marker

Tar filters collected from the same or adjacent air handlers are represented by a single marker

Geosyntec collect air samples in December 2023 and April 2024

Geosyntec collected wipe samples in December 2023 Geosyntec collected bulk samples January 2024 and March 2024

NCSU collected air samples in November 2023

NCSU collected wipe samples in November 2023 NCSU collected by samples in November 2023 NCSU collected bulk samples April 2018, October 2023, and November 2023

Roof and Penthouse Sample Location Map

Poe Hall, 2310 Katherine Stinson Drive Raleigh, NC 27695

Geosyntec ^D	•

consultants

Raleigh, NC June 2024

Figure

7h

Appendix A1 Air Sample Lab Report 2023

EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 09, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/22/2023. The results are tabulated on the attached pages for the following client designated project:

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

n/a

The reference number for these samples is EMSL Order #: <u>AB67731</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

A MM &

Owen McKenna Laboratory Manager or other approved signatory

Table of Contents

Cover Letter	1
Sample Condition on Receipt	3
Samples in Report	4
Positive Hits Summary	5
Sample Results	7
Quality Assurance Results	20
Certified Analyses	22
Certifications	22
Qualifiers, Definitions and Disclaimer	23
Chain of Custody PDF	24



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com n/a

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Sample Condition on Receipt

Temperature: 2.6 °C Cooler ID: Default Cooler **Custody Seals** Υ Containers Intact COC/Labels Agree Preservation Confirmed



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67731-01	DUP-01-122123	Tubes	12/21/2023	12/22/2023
AB67731-02	A-13-106-122123	Tubes	12/21/2023	12/22/2023
AB67731-03	A-12-228-122123	Tubes	12/21/2023	12/22/2023
AB67731-04	A-11-209-122123	Tubes	12/21/2023	12/22/2023
AB67731-05	A-02-317F-122123	Tubes	12/21/2023	12/22/2023
AB67731-06	A-09-402G-122123	Tubes	12/21/2023	12/22/2023
AB67731-07	A-10-400-122123	Tubes	12/21/2023	12/22/2023
AB67731-08	A-07-510E-122123	Tubes	12/21/2023	12/22/2023
AB67731-09	A-08-526-122123	Tubes	12/21/2023	12/22/2023
AB67731-10	A-05-608J-122123	Tubes	12/21/2023	12/22/2023
AB67731-11	A-06-635-122123	Tubes	12/21/2023	12/22/2023
AB67731-12	A-04-714B-122123	Tubes	12/21/2023	12/22/2023
AB67731-13	A-14-ROOF-122123	Tubes	12/21/2023	12/22/2023

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com n/a

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Positive Hits Summary

Lab ID	Client ID				Sampled
AB67731-01	DUP-01-122123				12/21/23 12:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0131		μg/m³	12/29/2023 15:38
Lab ID	Client ID				Sampled
AB67731-02	A-13-106-122123				12/21/23 14:40
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0193		μg/m³	12/29/2023 15:55
Lab ID	Client ID				Sampled
AB67731-03	A-12-228-122123				12/21/23 14:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0250		μg/m³	12/29/2023 16:11
Lab ID	Client ID				Sampled
AB67731-04	A-11-209-122123				12/21/23 13:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0341		μg/m³	12/29/2023 16:27
Lab ID	Client ID				Sampled
AB67731-05	A-02-317F-122123				12/21/23 10:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0285		μg/m³	12/29/2023 16:43
Lab ID	Client ID				Sampled
AB67731-06	A-09-402G-122123				12/21/23 13:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0384		μg/m³	12/29/2023 16:59
Lab ID	Client ID				Sampled
AB67731-07	A-10-400-122123				12/21/23 13:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0457		μg/m³	12/29/2023 17:15



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com **LIMS Reference ID:** AB67731 **EMSL Customer ID:** GSCH75

EMSL Order ID: 012367731

n/a

Customer PO:

Project Name:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AB67731-08	A-07-510E-122123				12/21/23 11:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0794		μg/m³	12/29/2023 17:31
Lab ID	Client ID				Sampled
AB67731-09	A-08-526-122123				12/21/23 12:09
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0451		μg/m³	12/29/2023 17:48
Lab ID	Client ID				Sampled
AB67731-10	A-05-608J-122123				12/21/23 11:14
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.121		μg/m³	12/29/2023 18:04
Lab ID	Client ID				Sampled
AB67731-11	A-06-635-122123				12/21/23 11:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0333		μg/m³	12/29/2023 18:36
Lab ID	Client ID				Sampled
AB67731-12	A-04-714B-122123				12/21/23 10:54
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.108		μg/m³	12/29/2023 18:52



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results

Sample: DUP-01-122123 AB67731-01 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00695	µg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0131		1	0.00695	μg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00695	µg/m³	12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	84%			60-120		12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	102%			60-120		12/28/23 11:13	12/29/23 15:38	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-13-106-122123 AB67731-02 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0193		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	93%			60-120		12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	117%			60-120		12/28/23 11:13	12/29/23 15:55	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-12-228-122123 AB67731-03 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0250		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	90%			60-120		12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	115%			60-120		12/28/23 11:13	12/29/23 16:11	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/22/2023 10:20

Reported: 01/09/2024 16:07

Sample Results (Continued)

Sample: A-11-209-122123 AB67731-04 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0341		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	105%			60-120		12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	122%	R1		60-120		12/28/23 11:13	12/29/23 16:27	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Sample Results (Continued)

Sample: A-02-317F-122123 AB67731-05 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0285		1	0.00696	μg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00696	µg/m³	12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	94%			60-120		12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	112%			60-120		12/28/23 11:13	12/29/23 16:43	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-09-402G-122123 AB67731-06 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0384		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	95%			60-120		12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	113%			60-120		12/28/23 11:13	12/29/23 16:59	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Sample Results (Continued)

Sample: A-10-400-122123 AB67731-07 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0457		1	0.00716	μg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00716	µg/m³	12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	92%			60-120		12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	112%			60-120		12/28/23 11:13	12/29/23 17:15	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Sample Results (Continued)

Sample: A-07-510E-122123 AB67731-08 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0794		1	0.00699	μg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00699	µg/m³	12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	106%			60-120		12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	124%	R1		60-120		12/28/23 11:13	12/29/23 17:31	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results
(Continued)

Sample: A-08-526-122123 AB67731-09 (Tubes)

Analyte	Result		DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0451		1	0.00707	μg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00707	µg/m³	12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	104%			60-120		12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	128%	R1		60-120		12/28/23 11:13	12/29/23 17:48	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Project Name:

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Sample Results (Continued)

Sample: A-05-608J-122123 AB67731-10 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00694	μg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.121		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00694	µg/m³	12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	115%			60-120		12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	138%	R1		60-120		12/28/23 11:13	12/29/23 18:04	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results
(Continued)

Sample: A-06-635-122123 AB67731-11 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0333		1	0.00709	μg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00709	µg/m³	12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	100%			60-120		12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	122%	R1		60-120		12/28/23 11:13	12/29/23 18:36	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-04-714B-122123 AB67731-12 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.108		1	0.00697	μg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00697	µg/m³	12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	106%			60-120		12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	128%	R1		60-120		12/28/23 11:13	12/29/23 18:52	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 16:07

Sample Results (Continued)

Sample: A-14-ROOF-122123 AB67731-13 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00691	μg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00691	μg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00691	μg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00691	μg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	ND		1	0.00691	μg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00691	µg/m³	12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	104%			60-120		12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	127%	R1		60-120		12/28/23 11:13	12/29/23 19:08	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens Project Name: n/a

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

Received: Reported:

01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-10A									
Blank (BBL0915-BLK1)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³		, = -20	,,			
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m ³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		88	60-120		
Surrogate: Decachlorobiphenyl				100.0		113	60-120		
Blank (BBL0915-BLK2)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³						
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		101	60-120		
Surrogate: Decachlorobiphenyl				100.0		125	60-120		
LCS (BBL0915-BS1)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	1000	50.0	μg/m³	1000		100	70-130		
Aroclor-1260	1090	50.0	μg/m³	1000		109	70-130		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		99	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

n/a

Customer PO:

EMSL Sales Rep:

Received: 12/22/2023 10:20

Reported:

01/09/2024 16:07

Emily Stressman

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-10	A (Continued)								
LCS Dup (BBL0915-BSD1)			Pre	pared: 12/28	/2023 Analyze	ed: 12/29/20	023		
Aroclor-1016	1030	50.0	μg/m³	1000		103	70-130	3	25
Aroclor-1260	1050	50.0	μg/m³	1000		105	70-130	4	25
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		96	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:** n/a

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep: **Emily Stressman** Received: 12/22/2023 10:20 Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Certified Analyses included in this Report

2 NJDEP
NJDEP
5 NJDEP
9 NJDEP
6 NJDEP
-1 NJDEP
5 NJDEP
5 NJDEP
4 NJDEP

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

n/a

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 16:07

EMSL Order ID: 012367731 LIMS Reference ID: AB67731

EMSL Customer ID: GSCH75

Notes and Definitions

Item	Definition
R1	Recovery is outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

			Special Ins		Regulatory Requiremer	ts (Sample Specif	cations, Proce	essing Metho	ods, Limits	of Detection	n, etc.)		
				Matrix	Preservative	List Test(s) Needed (Write in te	est below,	then chec	k on sam	ole line:)	
Client Sample ID		O Date / T		W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	method TO 104 Test 2:	0		Test 7:	Test 8:	Comments		
t-02-317F-122123			12/21/23	A	none								Start 12/20/2
1-09-4026-124	3		1300	A	none								Start 12/20/2 Start 12/20/2
1-10-400-122123			122123	A	none								MW 122 131
-07-510E-122123			12/21/23	A	none	X							Start 12/20/2
1-08-526-122123			12/21/25	A	none	V C							1150 Stort 12/20/2
			12/21/23	A	none	X [1205 Start 12/20/2
-05-608 3 -12423			12/21/23	A	none				П	П		П	1114 Sturt (2/20/2
-04-7148-122123			12/21/23	A	none	X							1/22 start 12/20/2
ethod of Shipment:	et		-			Sampl	e Condition Up	oon Receipt	:				
elinquished by:	7.	. 4.		Date/Time:	3 1800		red by:					Dat	e/Time
elinquished by:	116	377	, 21	Date/Time:	-> (800		red by:			-		Date	e/Time

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MININGON, IIIO. 200 Rt. 130 N

Cinnaminson, NJ 08077

17721	PHONE: (800) 220-3675

EMSL ANALYTICAL, INC.							Δ	3677	21				Р	HONE:	(800) 220-36	75
Customer ID:	2.56			7		1	Billing ID:						*	EMAIL:	EnvChemistry	2@EMSL.con
Company Name:	112	.4.	C. / ~	411.2	276	-	Company Na	me:	ume	0	2.				*	
Company Name: Ged Contact Name: Se Street Address: So City, State, Zip: Phone: 704-	27	- 6	c Con Mint	170 1.10		ation	Billing Contact									
Street Address: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0	<	mil	2	7	E	Street Addres									
City, State, Zip:		2.	e, NC	Stree	Country:	=	City, State, Z									
Phone:	-	27.7	JNC.	28205	Country.	i=		p: 		Ú.					Country:	
Fmail(s) for Report:	-		7'-03			- B	Phone:				1					
) (~~ v	rer	15 Ogeos	yntec.	. Com		Email(s) for I	voice:								
Project Same/No:)				Pu	urchase Order	:			3
MSL LIMS Project ID:						US S	State where		Is	State of	Connecticu	t (CT) must se	oloot project	Innation		
If applicable, EMSL will provide)							oles collected:	NO		Take of T		ercial (Taxab		1	ntial (Non-Ta	xable)
Samples for Ye.	s	No	If Yes,			Other				PWS				State	Reporting F	Required?
			NPDE	:5?		(Specify)				D:					Yes	No
Samples Collected by (Check Or	ie):		EMSL	CLIENT	Samples Received Ch	niiled?	Yes		No		(s) Tempe ceipt (LAE	rature Upon 3 ONLY)				
Sampled By Name:	, -	T-	ofter	Sampled By Sig	gnature:		-1					7		No. of S	Samples	
urn-Around-Time (TAT)	-		ard Turn-Around	-Time:	2 Weeks	The following	TAT's are sub	ect to Lab a	approval.	Г	1 Week	4 Days	3 Da		2 Days	1 Day
				Matrix	Preservative	1 120	onfirm TAT beforest Toest(s) N							lys	2 Days	Day
				Matrix	1 HCL		st rest(s) N	eded (W	rite in test	t below,	then chec	ck on sample	line:)	13-10		
Client Sample ID	Сотр	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	2 HNO3	McHood TO10A	Test 3:	Test 4:	Test 5:		Test 6:	Test 7:	Test 8:		Commen	ts
108-01-122123		П	12/21/23	A	none	IXI					1	1		174 37	1	12/25/
-13-106-122123			17/5/52			X								Sta-	+ time	000
			14410	A	none	X					+			1	420	23/2
1-12-228-122123	\parallel		14/10		none	171								40 1 11 11	122	0
ELM41-605-11-			1350	A	none	1								star >	134	123
FX# 7884 18	000	279	Special Instr	uctions and/or R	Regulatory Requirements	(Sample S	pecifications,	Processing	g Methods,	Limits of	of Detection	n, etc.)				
Reporting Requirement		-		ts Only	Results and QC		Reduced D	eliverables	Г	Hzr	esults EDD	,	Excel		Other (Dee	oribo Aboura
ethod of Shipment:	PX					S	Sample Condit						LACEI		Other (Des	cribe Above)
elinquished by:	7	-11-	40-	Date/Time:		R	Received by:	Mo-	.00				Date	Time		
linquished by:			76!	12/21/27 Date/Time:	3 1800		Received by:	MAIN	ruly	ナ			Date	22 23 Time	B 10:200	m
ntrolled Document - COC-07 Chemistry F	11 02/26	/2021	AGREE TO	FI FCTRONIC SIGN	IATIDE /Dy shocking I seese	t to sion has the	. 01 1 10 1						1 600	The M	0	
													2.60	Onic		

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL Mary war, mo.

200 Rt. 130 N

Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC.		AB6773		PHONE: (800) 220-3675
Customer ID:		Billing ID:	/	EMAIL: EnvChemistry2@EMSL.com
Company Name: (3854) tes (3054) ta	nts	Company Name:	-6	
Contact Name: Deff Ahrens.		Billing Contact:	,7,	
Company Name: Georgy to Consolta Contact Name: Deff Ahrens. Street Address: 1300 S-MINT FA City, State, Zip: Chorlotte, NC 12 Phone: 704-727-8840	. 50.300	Billing Contact: Street Address:		
City, State, Zip: Charlotte, NC	28207 Country:	City, State, Zip:		Country:
Phone: 704-227-0840		City, State, Zip: Phone:		
Email(s) for Report: ahrens @ geosyn	be 100m	Email(s) for Invoice:		
Project Name/No: NCSU PH			Purchase Orde	er:
EMSL LIMS Project ID: (If applicable, EMSL will provide)		S State where	State of Connecticut (CT) must	select project location:
Samples for If Yes for	Other	amples collected:	Commercial (Taxa	
Compliance? Yes No If Yes, for NPDES?	Yes No (Specific		PWS ID:	State Reporting Required? Yes No
Samples Collected by (Check One):	CLIENT Samples Received Chilled?	Yes No	Sample(s) Temperature Upor	
Sampled By Name: Sohn Trotte Sam	npled By Signature:	~	Receipt (LAB ONLY)	No. of Samples in Shipment:
Turn-Around-Time (TAT) Standard Turn-Around-Time	e: Z Weeks The follow	wing TAT's are subject to Lab approval.	1 Week 4 Day	rs 3 Days 2 Days 1 Day
	Matrix Preservative	List Test(s) Needed (Write in tes	st below, then check on samp	le line:)
Client Sample ID E O Date / Time S=5 Collected A=/ SL=	2 112004	Test 2:	Test 6:	Comments
8 A-14-ROOF-122123 1505	A None X			12/20/23
Special Instruction	ns and/or Regulatory Requirements (Samp	a Specifications Dransains Mathe		
	is under regulatory requirements (Samp	e Specifications, Processing Method	s, Limits of Detection, etc.)	
Reporting Requirements: Results Or	Results and QC	Reduced Deliverables	Hzresults EDD	Excel Other (Describe Above
Method of Shipment:		Sample Condition Upon Receipt:	TETOGRAD EDD	Other (Describe Above)
Relinquished by: Date	Time: 12-21-23 1800	Received by:		Date/Time
Relinquished by Controlled Document - COC-07 Chemistry R11 02/26/2021	Time:	Received by:		Date/Time

AGREE TO ELECTRONIC SIGNATURE (Du shocking I second la similar Mill Ob. 1. Co. 1.

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 11, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/27/2023. The results are tabulated on the attached pages for the following client designated project:

NCSU PH

The reference number for these samples is EMSL Order #: <u>AB67810</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

MM S

Table of Contents

Cover Letter	1
Sample Condition on Receipt	3
Samples in Report	4
Positive Hits Summary	5
Sample Results	6
Quality Assurance Results	10
Certified Analyses	12
Certifications	12
Qualifiers, Definitions and Disclaimer	13
Chain of Custody PDF	14





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/27/2023 09:00 Reported: 01/11/2024 16:17

Sample Condition on Receipt

Cooler ID: Default Cooler Temperature: 15.1 °C **Custody Seals** Υ Containers Intact COC/Labels Agree Preservation Confirmed





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810

LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67810-01	A-01-216-122223	Tubes	12/22/2023	12/27/2023
AB67810-02	A-03-742-122223	Tubes	12/22/2023	12/27/2023
AB67810-03	A-15-117-122223	Tubes	12/22/2023	12/27/2023
AB67810-04	A-Blank-117-122223	Tubes	12/22/2023	12/27/2023



EMEL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com Project Name:

NCSU PH

EMSL Order ID: 012367810

LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Positive Hits Summary

Lab ID	Client ID				Sampled
AB67810-01	A-01-216-122223				12/22/23 11:21
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0704		μg/m³	12/29/2023 19:24
Lab ID	Client ID				Sampled
AB67810-02	A-03-742-122223				12/22/23 17:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0677		μg/m³	12/29/2023 19:41
Lab ID	Client ID				Sampled
AB67810-03	A-15-117-122223				12/22/23 10:02
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1262	0.0436		μg/m³	12/29/2023 19:57



EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

NCSU PH

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/27/2023 09:00 Reported: 01/11/2024 16:17

Sample Results

Sample: A-01-216-122223 AB67810-01 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0704		1	0.00748	μg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00748	µg/m³	12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	109%			60-120		12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	133%	R1		60-120		12/28/23 11:13	12/29/23 19:24	RAG/TL1	EPA TO-10A	EPA TO-10A



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Sample Results
(Continued)

Sample: A-03-742-122223 AB67810-02 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00677	μg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00677	μg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00677	μg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0677		1	0.00677	μg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00677	µg/m³	12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	109%			60-120		12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	127%	R1		60-120		12/28/23 11:13	12/29/23 19:41	RAG/TL1	EPA TO-10A	EPA TO-10A



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Sample Results (Continued)

Sample: A-15-117-122223 AB67810-03 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	0.0436		1	0.00713	μg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.00713	µg/m³	12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	107%			60-120		12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	130%	R1		60-120		12/28/23 11:13	12/29/23 19:57	RAG/TL1	EPA TO-10A	EPA TO-10A



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/27/2023 09:00

Reported: 01/11/2024 16:17

Sample Results (Continued)

Sample: A-Blank-117-122223 AB67810-04 (Tubes)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1221	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1232	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1242	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1248	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1254	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1260	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1262	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Aroclor-1268	ND		1	0.050	ug/PUF	12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	109%			60-120		12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A
Surrogate: Decachlorobiphenyl	134%	R1		60-120		12/28/23 11:13	12/29/23 20:13	RAG/TL1	EPA TO-10A	EPA TO-10A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com Project Name:

NCSU PH

EMSL Order ID: 012367810

LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-10A									
Blank (BBL0915-BLK1)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³		, = -20	,,			
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m ³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		88	60-120		
Surrogate: Decachlorobiphenyl				100.0		113	60-120		
Blank (BBL0915-BLK2)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	ND	50.0	μg/m³						
Aroclor-1221	ND	50.0	μg/m³						
Aroclor-1232	ND	50.0	μg/m³						
Aroclor-1242	ND	50.0	μg/m³						
Aroclor-1248	ND	50.0	μg/m³						
Aroclor-1254	ND	50.0	μg/m³						
Aroclor-1260	ND	50.0	μg/m³						
Aroclor-1262	ND	50.0	μg/m³						
Aroclor-1268	ND	50.0	μg/m³						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		101	60-120		
Surrogate: Decachlorobiphenyl				100.0		125	60-120		
LCS (BBL0915-BS1)			Pre	pared: 12/28	3/2023 Analyze	d: 12/29/20)23		
Aroclor-1016	1000	50.0	μg/m³	1000		100	70-130		
Aroclor-1260	1090	50.0	μg/m³	1000		109	70-130		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		99	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/27/2023 09:00

Reported:

01/11/2024 16:17

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0915 - EPA TO-10	A (Continued)								
LCS Dup (BBL0915-BSD1)			Prep	pared: 12/28	/2023 Analyze	ed: 12/29/20	023		
Aroclor-1016	1030	50.0	μg/m³	1000		103	70-130	3	25
Aroclor-1260	1050	50.0	μg/m³	1000		105	70-130	4	25
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				100.0		96	60-120		
Surrogate: Decachlorobiphenyl				100.0		123	60-120		

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:** NCSU PH

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/27/2023 09:00 Reported: 01/11/2024 16:17

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
EPA TO-10A in Tubes			
Aroclor-1016	12674-11-2	NJDEP	
Aroclor-1221	11104-28-2	NJDEP	
Aroclor-1232	11141-16-5	NJDEP	
Aroclor-1242	53469-21-9	NJDEP	
Aroclor-1248	12672-29-6	NJDEP	
Aroclor-1254	11097-69-1	NJDEP	
Aroclor-1260	11096-82-5	NJDEP	
Aroclor-1262	37324-23-5	NJDEP	
Aroclor-1268	11100-14-4	NJDEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367810 LIMS Reference ID: AB67810

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/27/2023 09:00

 Reported:
 01/11/2024 16:17

Notes and Definitions

Item	Definition
R1	Recovery is outside of the method control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

MSL ANALYTICAL, INC.	Environmental EMSL	Chem Order Nur	A TIME			stody			200 Rt. 13	10 N son, NJ 08077	
		ABL	27810)						NE: (800) 220	
Customer ID: Company Name:		T	Billing II						E.M	All.: EnvChemi	stry2@EMSL.c
Company Name: Cessynte Con	sultants	5	Compa	ny Name:	Sa	me	as				
	and a second	Information	Billing C	ontact:		1111	0.0				
Street Address: 1300 S. Mint	34.	nfor	Street A	ddress:							
0 0:1 0:1 7:	BL63 Country: US	l bu	City, Sta	ite, Zip:	£77					Country:	
Phone: 704-227-0850		Billing	Phone:								•
Email(s) for Report: Jahren Sagesyn	Lea com		Email(s	for Invoic	ce:						
Project	7003 001				47.17		F	Purchase Orde	r:		1189
Name/No: NCSUPH EMSL LIMS Project ID:		110	State wh	oro		Ctata	60	+ (OT)			
(If applicable, EMSL will provide)			nples coll	ected:	NC	State		mercial (Taxab	elect project locale)	ation: esidential (Non	-Taxable)
Samples for Yes No If Yes, for Compliance?	Yes No	Other (Specify)			1	PWS				State Reportir	ng Required?
Compliance: NPDES?						ID:	1-/-\ T			Yes	No
Samples Collected by (Check One):	CLIENT	orimed:		Yes	No		Receipt (LA	erature Upon AB ONLY)	Congress and		
Sampled By Name: John Toodter & Marc Wed	ampled By Signature:	1	M	2						No. of Samples on Shipment:	
Turn-Around-Time (TAT) Standard Turn-Around-Tir	me: 2 Weeks	The following	ing TAT's a	re subject t	to Lab approv	al.	1 Week	4 Days	3 Days	2 Days	1 Day
	Matrix Preservative					test belo	w. then che	eck on sample	e line:)		
Client Sample ID Signature Collected Collected	=Water =Soil 2 HNO3 =Air =Sludge =Other 5 Other Describe below in Special Instructions	method TO 10A	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comm	ients
A-01-216-122223 122123	none	+									
A-01-216-12223 1212123	A none	7									
0-15-117-111113	A none	7			1			1			
12/22/23	A none	+			1						
	ions and/or Regulatory Requiremen	nts (Sample	Specifica	tions, Pro	cessing Met	hods, Limit	s of Detecti	on, etc.)		5.1°C	49/
Reporting Requirements: Results 6	Only Results and QC		Redu	ced Delive	erables	H	Hzresults E	DD D	Excel	Other (Describe Above
Method of Shipment: Feet			Sample	Condition	Upon Receip						
Relinquished by: Abru Abstra	te/Time:	30	Received		La Ca	Coll	ur P	=X	Date/Tin	17/23	9 W 3 9 Am

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Gustody document by electronic signature.)

Page 1 of 2

Appendix A2 Surface Wipe Sample Summary Table and Lab Report, December 2023

Summary Detected PCB Aroclors in Surface Wipe Samples Collected by Geosyntec, December 2023 Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room #	Room Type	Surface Wiped	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor 1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 Concentration (μg/100 cm²)	Aroclor-1262 (μg/ 100 cm ²)	US EPA PCB Threshold for Non-Porous Surfaces in High Occupancy Areas (µg/100 cm²)¹
		W-068-100-12212023	100	Maintenance/ utility	Desk	< RL	1.95	10
	2	W-002-101-12212023	101	Maintenance/ utility	Lid	< RL	< RL	10
		W-003-102A-12212023	102A	Laboratory	Desk	< RL	< RL	10
		W-004-103-12212023	103B	Laboratory	Vent	< RL	< RL	10
		W-014-103B-12212023	103	Laboratory	Desk	< RL	7.4	10
		W-067-116-12212023	116	Maintenance/ utility	Desk	< RL	1.12	10
	1	W-006-117-12212023	117	Laboratory	Table	< RL	< RL	10
		W-005-117-12212023	117	Laboratory (dup)	Table	< RL	< RL	10
1st		W-007-120-12212023	120	Classroom	Desk	< RL	< RL	10
	lst	W-008-125-12212023	125	Maintenance/ utility	Lid	< RL	< RL	10
	2	W-009-127-12212023	127	Maintenance/ utility	Metal Box	< RL	< RL	10
		W-010-130-12212023	130	Maintenance/ utility	Table	< RL	< RL	10
	N/A	W-011-197-12212023	197	Elevator	Elevator buttons	< RL	< RL	10
	N/A	W-012-198-12212023	198	Elevator	Elevator buttons	< RL	0.592	10
	N/A	W-013-199-12212023	199	Elevator	Elevator buttons	< RL	0.573	10
1		W-015-201-12212023	201	Bathroom	Shelf	< RL	< RL	10
		W-017-202-12212023	202	Classroom	Table	< RL	< RL	10
	2	W-016-202-12212023	202	Classroom (dup)	Table	< RL	< RL	10
		W-018-208Q-12212023	208Q	Office	Desk	< RL	< RL	10
2nd		W-019-210-12212023	210	Classroom	Desk	< RL	< RL	10
	1	W-020-213-12212023	213	Bathroom	Counter	< RL	0.673	10
	1	W-014-218-12212023	218	Classroom	Desk	< RL	0.644	10
		W-022-220-12212023	220	Classroom	Vent	< RL	9.49	10
	2	W-023-222-12212023	222	Maintenance/ utility	Product dispenser	< RL	0.733	10

¹eCFR :: 40 CFR Part 761 -- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

Notes:

Sample ID nomenclature: Wipe Sample-Sample Number-Sample Room Number-Sample Date (W-##-####-mmddyyyy)

HVAC: heating, ventilation and air conditioning

 $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters}$

US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) = $0.500 \mu g/100 \text{ cm}^2$.

< RL: analyte was not detected at or above the reporting limit

HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

Summary Detected PCB Aroclors in Surface Wipe Samples Collected by Geosyntec, December 2023 Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room #	Room Type	Surface Wiped	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 Concentration (μg/100 cm²)	Aroclor-1262 (μg/ 100 cm ²)	US EPA PCB Threshold for Non-Porous Surfaces in High Occupancy Areas (µg/100 cm²)¹
		W-021-216-12212023	216	Classroom	Desk	< RL	< RL	10
	4	W-025-300D-12212023	300D	Office	Window Sill	< RL	74.6	10
		W-026-309-12212023	309	Bathroom	Shelf	< RL	< RL	10
		W-024-310L-12212023	310L	Office	Vent	< RL	1.87	10
		W-028-312-12212023	312	Classroom	Table	< RL	0.529	10
3rd		W-027-312-12212023	312	Classroom (dup)	Table	< RL	< RL	10
	3	W-029-313-12212023	313	Maintenance/ utility	Shelf	< RL	0.763	10
		W-030-325-12212023	325	Bathroom	Counter	< RL	< RL	10
		W-031-326S-12212023	326S	Office	Shelf	< RL	< RL	10
		W-033-400-12202023	400	Classroom	Desk	< RL	1.57	10
		W-034-402G-12202023	402G	Office	Window Sill	< RL	7.75	10
	4	W-035-406-12202023	406	Bathroom	Counter	< RL	< RL	10
		W-036-412G-12202023	412G	Office	Microwave	< RL	< RL	10
4th		W-037-413-12202023	413	Maintenance/ utility	Shelf	< RL	1.43	10
	3	W-038-414A-12202023	414A	Classroom	Counter	< RL	< RL	10
		W-039-419-12202023	419	Bathroom	Shelf	< RL	3.1	10
		W-040-424-12202023	424	Classroom	Desk	< RL	0.766	10
		W-041-500-12202023	500	Classroom	Window Sill	< RL	4.5	10
	3rd 3	W-042-509-12202023	509	Bathroom	Counter	< RL	< RL	10
		W-043-510E-12202023	510E	Office	Shelf	< RL	< RL	10
		W-044-514-12202023	514	Maintenance/ utility	Product dispenser	< RL	1.62	10
	2	W-045-518-12202023	518	Office	Printer	< RL	< RL	10
	3	W-046-526-12202023	526	Bathroom	Shelf	< RL	< RL	10
		W-048-529-12202023	529	Classroom	Vent	< RL	< RL	10
		W-047-532-12202023	532	Classroom	Table	< RL	< RL	10

¹eCFR :: 40 CFR Part 761 -- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

Notes:

Sample ID nomenclature: Wipe Sample-Sample Number-Sample Room Number-Sample Date (W-##-###-mmddyyyy)

HVAC: heating, ventilation and air conditioning

 $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters}$

US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) = $0.500 \mu g/100 \text{ cm}^2$.

< RL: analyte was not detected at or above the reporting limit

HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

Summary Detected PCB Aroclors in Surface Wipe Samples Collected by Geosyntec, December 2023 Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample-ID	Room #	Room Type	Surface Wiped	Aroclor-1026, Aroclor-1221, Aroclor-1232, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1268 Concentration (µg/100 cm²)	Aroclor-1262 (μg/ 100 cm ²)	US EPA PCB Threshold for Non-Porous Surfaces in High Occupancy Areas (µg/100 cm²)¹
	3	W-049-604-12202023	604	Laboratory	Table	< RL	< RL	10
		W-050-605-12202023	605	Laboratory	Shelf	< RL	< RL	10
	4	W-051-607-12202023	607	Bathroom	Counter	< RL	< RL	10
6th	6th	W-052-608P-12202023	608P	Office	Desk	< RL	2.00	10
Oth	3	W-053-613-12202023	613	Maintenance/ utility	Cardboard box	< RL	< RL	10
	3	W-054-616A-12202023	616A	Office	Window Sill	< RL	1.91	10
		W-055-630-12202023	630	Bathroom	Counter	< RL	< RL	10
		W-056-700-12202023	700	Laboratory	Shelf	< RL	< RL	10
	4	W-057-719-12202023	719	Bathroom	Counter	< RL	< RL	10
		W-058-729-12202023	729	Office	Book	< RL	< RL	10
7th		W-059-734-12202023	734	Maintenance/ utility	Shelf	< RL	< RL	10
	3	W-060-742-12202023	742	Laboratory	Window Sill	< RL	0.573	10
	3	W-061-744-12202023	744	Bathroom	Product dispenser	< RL	< RL	10
		W-062-761-12202023	761	Office	Desk	< RL	< RL	10
Roof	N/A	W-063-P1000A-12212023	P1000A	Maintenance/ utility	Desk	< RL	< RL	10
K001	N/A	W-064-P1001A-12212023	P1001A	Maintenance/ utility	Book	< RL	< RL	10
Roof	4	W-066-P1003-12212023	P1003	Maintenance/ utility	Book	< RL	7.88	10
K001	3	W-065-P1004-12212023	P1004	Maintenance/ utility	Metal Box	< RL	2.87	10

¹eCFR :: 40 CFR Part 761 -- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions

Notes:

Sample ID nomenclature: Wipe Sample-Sample Number-Sample Room Number-Sample Date (W-##-###-mmddyyyy)

HVAC: heating, ventilation and air conditioning

 $\mu g/100 \text{ cm}^2 = \text{micrograms per } 100 \text{ square centimeters}$

US EPA: United States Environmental Protection Agency

PCB: Polychlorinated Biphenyls

The method reporting limit (RL) = $0.500 \mu g/100 \text{ cm}^2$.

< RL: analyte was not detected at or above the reporting limit

HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 09, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/21/2023. The results are tabulated on the attached pages for the following client designated project:

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

NCSU PH

The reference number for these samples is EMSL Order #: AB67620 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Ch MIM

Owen McKenna Laboratory Manager or other approved signatory

Table of Contents

Cover Letter	1
Sample Condition on Receipt	3
Samples in Report	4
Positive Hits Summary	5
Sample Results	7
Quality Assurance Results	38
Certified Analyses	41
Certifications	41
Qualifiers, Definitions and Disclaimer	42
Chain of Custody PDF	43



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Condition on Receipt

Cooler ID: Default Cooler	Temperature: 6.7 °C
Custody Seals	Υ
Containers Intact	Υ
COC/Labels Agree	Υ
Preservation Confirmed	Υ

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67620-01	W-033-400-12202023	Wipe	12/20/2023	12/21/2023
AB67620-02	W-034-4026-12202023	Wipe	12/20/2023	12/21/2023
AB67620-03	W-035-406-122023	Wipe	12/20/2023	12/21/2023
AB67620-04	W-036-4126-12202023	Wipe	12/20/2023	12/21/2023
AB67620-05	W-037-413-12202023	Wipe	12/20/2023	12/21/2023
AB67620-06	W-038-414A-12202023	Wipe	12/20/2023	12/21/2023
AB67620-07	W-039-419-12202023	Wipe	12/20/2023	12/21/2023
AB67620-08	W-040-424-12202023	Wipe	12/20/2023	12/21/2023
AB67620-09	W-041-500-12202023	Wipe	12/20/2023	12/21/2023
AB67620-10	W-042-509-12202023	Wipe	12/20/2023	12/21/2023
AB67620-11	W-043-510E-12202023	Wipe	12/20/2023	12/21/2023
AB67620-12	W-044-514-12202023	Wipe	12/20/2023	12/21/2023
AB67620-13	W-045-518-12202023	Wipe	12/20/2023	12/21/2023
AB67620-14	W-046-526-12202023	Wipe	12/20/2023	12/21/2023
AB67620-15	W-047-532-12202023	Wipe	12/20/2023	12/21/2023
AB67620-16	W-048-529-12202023	Wipe	12/20/2023	12/21/2023
AB67620-17	W-049-604-12202023	Wipe	12/20/2023	12/21/2023
AB67620-18	W-050-605-12202023	Wipe	12/20/2023	12/21/2023
AB67620-19	W-051-607-12202023	Wipe	12/20/2023	12/21/2023
AB67620-20	W-052-608P-12202023	Wipe	12/20/2023	12/21/2023
AB67620-21	W-053-613-12202023	Wipe	12/20/2023	12/21/2023
AB67620-22	W-054-616A-12202023	Wipe	12/20/2023	12/21/2023
AB67620-23	W-055-630-12202023	Wipe	12/20/2023	12/21/2023
AB67620-24	W-056-700-12202023	Wipe	12/20/2023	12/21/2023
AB67620-25	W-057-719-12202023	Wipe	12/20/2023	12/21/2023
AB67620-26	W-058-729-12202023	Wipe	12/20/2023	12/21/2023
AB67620-27	W-059-734-12202023	Wipe	12/20/2023	12/21/2023
AB67620-28	W-060-742-12202023	Wipe	12/20/2023	12/21/2023
AB67620-29	W-061-744-12202023	Wipe	12/20/2023	12/21/2023
AB67620-30	W-062-761-12202023	Wipe	12/20/2023	12/21/2023
AB67620-31	W-001-Blank-12202023	Wipe	12/20/2023	12/21/2023

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012367620 LIMS Reference ID: AB67620 EMSL Customer ID: GSCH75

Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Positive Hits Summary

Lab ID	Client ID				Sampled
AB67620-01	W-033-400-12202023				12/20/23 15:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.57		μg/100 cm²	01/08/2024 14:56
Lab ID	Client ID				Sampled
AB67620-02	W-034-4026-12202023				12/20/23 15:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	7.75		μg/100 cm²	01/08/2024 15:17
Lab ID	Client ID				Sampled
AB67620-05	W-037-413-12202023				12/20/23 14:40
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.43		μg/100 cm²	01/08/2024 16:21
Lab ID	Client ID				Sampled
AB67620-07	W-039-419-12202023				12/20/23 14:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	3.10		μg/100 cm²	01/08/2024 17:04
Lab ID	Client ID				Sampled
AB67620-08	W-040-424-12202023				12/20/23 15:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.766		μg/100 cm²	01/08/2024 17:25
Lab ID	Client ID				Sampled
AB67620-09	W-041-500-12202023				12/20/23 14:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	4.50		μg/100 cm²	01/08/2024 17:47
Lab ID	Client ID				Sampled
AB67620-12	W-044-514-12202023				12/20/23 13:35
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.62		μg/100 cm²	01/04/2024 14:46



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Positive Hits Summary

(Continued)

Lab ID AB67620-20	Client ID W-052-608P-12202023				Sampled 12/20/23 12:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2.00		μg/100 cm²	01/04/2024 17:35
Lab ID	Client ID				Sampled
AB67620-22	W-054-616A-12202023				12/20/23 13:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.91		μg/100 cm²	01/04/2024 18:16
Lab ID	Client ID				Sampled
AB67620-28	W-060-742-12202023				12/20/23 11:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.573		μg/100 cm²	01/04/2024 20:43



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results

Sample: W-033-400-12202023 AB67620-01 (Wipe)

Prepared Analyzed Prep/Analyst Analytical Analyte Result Q RL Units Date/Time Date/Time Initials Method Method **GC-SVOA** Aroclor-1016 ND 0.500 µg/100 01/04/24 10:34 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A cm² Aroclor-1221 ND 1 0.500 µg/100 01/04/24 10:34 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A cm² µg/100 SW846 3540C SW846-8082A Aroclor-1232 ND 0.500 01/04/24 10:34 01/08/24 14:56 MxB/AxJ cm² SW846 3540C SW846-8082A Aroclor-1242 ND 0.500 µq/100 01/04/24 10:34 01/08/24 14:56 MxB/AxJ cm² Aroclor-1248 ND 0.500 µg/100 01/04/24 10:34 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A cm² Aroclor-1254 ND 0.500 µg/100 01/04/24 10:34 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A cm² µg/100 0.500 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A Aroclor-1260 ND 01/04/24 10:34 cm² Aroclor-1262 1.57 0.500 µg/100 01/04/24 10:34 01/08/24 14:56 MxR/Ax.I SW846 3540C SW846-8082A cm² Aroclor-1268 ND 0.500 µg/100 01/04/24 10:34 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A cm² Surrogate(s) Limits Recovery Q Surrogate: Tetrachloro-m-xylene 79% 21-123 01/04/24 10:34 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A Surrogate: Decachlorobiphenyl 97% 17-128 01/04/24 10:34 01/08/24 14:56 MxB/AxJ SW846 3540C SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-034-4026-12202023 AB67620-02 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	7.75		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	81%			21-123		01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	99%			17-128		01/04/24 10:34	01/08/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-035-406-122023 AB67620-03 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	77%			21-123		01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	96%			17-128		01/04/24 10:34	01/08/24 15:38	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-036-4126-12202023 AB67620-04 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	73%			21-123		01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		01/04/24 10:34	01/08/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-037-413-12202023 AB67620-05 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.43		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	74%			21-123		01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	93%			17-128		01/04/24 10:34	01/08/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-038-414A-12202023 AB67620-06 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/04/24 10:34	01/08/24 16:43	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-039-419-12202023 AB67620-07 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	3.10		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	59%			21-123		01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	75%			17-128		01/04/24 10:34	01/08/24 17:04	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/21/2023 09:00

Reported: 01/09/2024 15:21

Sample Results (Continued)

Sample: W-040-424-12202023 AB67620-08 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.766		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	82%			17-128		01/04/24 10:34	01/08/24 17:25	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/21/2023 09:00

Reported: 01/09/2024 15:21

Sample Results (Continued)

Sample: W-041-500-12202023 AB67620-09 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	4.50		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			17-128		01/04/24 10:34	01/08/24 17:47	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-042-509-12202023 AB67620-10 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	88%			17-128		01/03/24 11:15	01/04/24 14:04	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-043-510E-12202023 AB67620-11 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	73%			21-123		01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	89%			17-128		01/03/24 11:15	01/04/24 14:24	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/21/2023 09:00

Reported: 01/09/2024 15:21

Sample Results (Continued)

Sample: W-044-514-12202023 AB67620-12 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.62		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	59%			21-123		01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	78%			17-128		01/03/24 11:15	01/04/24 14:46	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-045-518-12202023 AB67620-13 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			21-123		01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/03/24 11:15	01/04/24 15:07	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-046-526-12202023 AB67620-14 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/03/24 11:15	01/04/24 15:27	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-047-532-12202023 AB67620-15 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	91%			17-128		01/03/24 11:15	01/04/24 15:48	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-048-529-12202023 AB67620-16 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	58%			21-123		01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 16:09	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-049-604-12202023 AB67620-17 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	48%			21-123		01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	81%			17-128		01/03/24 11:15	01/04/24 16:31	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/21/2023 09:00

Reported: 01/09/2024 15:21

Sample Results (Continued)

Sample: W-050-605-12202023 AB67620-18 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenvl	83%			17-128		01/03/24 11:15	01/04/24 16:52	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-051-607-12202023 AB67620-19 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 17:14	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-052-608P-12202023 AB67620-20 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	2.00		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	59%			21-123		01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 17:35	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-053-613-12202023 AB67620-21 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	58%			21-123		01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		01/03/24 11:15	01/04/24 17:56	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/21/2023 09:00

Reported: 01/09/2024 15:21

Sample Results (Continued)

Sample: W-054-616A-12202023 AB67620-22 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.91		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	92%			17-128		01/03/24 11:15	01/04/24 18:16	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-055-630-12202023 AB67620-23 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			17-128		01/03/24 11:15	01/04/24 18:37	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-056-700-12202023 AB67620-24 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	84%			17-128		01/03/24 11:15	01/04/24 18:58	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-057-719-12202023 AB67620-25 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			17-128		01/03/24 11:15	01/04/24 19:20	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-058-729-12202023 AB67620-26 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	86%			17-128		01/03/24 11:15	01/04/24 19:41	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-059-734-12202023 AB67620-27 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	71%			21-123		01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	93%			17-128		01/03/24 11:15	01/04/24 20:22	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-060-742-12202023 AB67620-28 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.573		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	85%			17-128		01/03/24 11:15	01/04/24 20:43	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-061-744-12202023 AB67620-29 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	61%			21-123		01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		01/03/24 11:15	01/04/24 21:04	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-062-761-12202023 AB67620-30 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	79%			17-128		01/02/24 10:48	01/03/24 14:35	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Sample Results (Continued)

Sample: W-001-Blank-12202023 AB67620-31 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	87%			21-123		01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	107%			17-128		01/02/24 10:48	01/03/24 14:55	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/21/2023 09:00

Reported:

01/09/2024 15:21

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0010 - SW846 3540C								
Blank (BCA0010-BLK1)			Prepared: 1/2	2/2024 Analyzed:	1/3/202	4		
Aroclor-1016	ND	0.500 μg/100 cm ²						
Aroclor-1221	ND	0.500 μg/100 cm ²						
Aroclor-1232	ND	0.500 μg/100 cm ²						
Aroclor-1242	ND	0.500 μg/100 cm ²						
Aroclor-1248	ND	0.500 μg/100 cm ²						
Aroclor-1254	ND	0.500 μg/100 cm ²						
Aroclor-1260	ND	0.500 μg/100 cm ²						
Aroclor-1262	ND	0.500 μg/100 cm ²						
Aroclor-1268	ND	0.500 μg/100 cm ²						
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		67	21-123		
Surrogate: Decachlorobiphenyl			1.000		73	17-128		
LCS (BCA0010-BS1)		ĺ	Prepared: 1/2	/2024 Analyzed:	1/3/2024	4		
Aroclor-1016	7.47	0.500 μg/100 cm ²	10.00		75	37-120		
Aroclor-1260	8.43	0.500 μg/100 cm ²	10.00		84	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		68	21-123		
Surrogate: Decachlorobiphenyl			1.000		72	17-128		
LCS Dup (BCA0010-BSD1)		1	Prepared: 1/2	/2024 Analyzed:	1/3/2024	4		
Aroclor-1016	7.44	0.500 μg/100 cm ²	10.00		74	37-120	0.4	25
Aroclor-1260	8.45	0.500 μg/100 cm ²	10.00		85	45-121	0.3	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		65	21-123		
Surrogate: Decachlorobiphenyl			1.000		71	17-128		

Batch: BCA0077 - SW846 3540C

Blank (BCA0077-BLK1)		Prepared: 1/3/2024 Analyzed: 1/4/2024
Aroclor-1016	ND	0.500 μg/100 cm ²
Aroclor-1221	ND	0.500 μg/100 cm ²
Aroclor-1232	ND	0.500 μg/100 cm ²
Aroclor-1242	ND	0.500 μg/100 cm ²
Aroclor-1248	ND	0.500 μg/100 cm ²
Aroclor-1254	ND	0.500 μg/100 cm ²
Aroclor-1260	ND	0.500 μg/100 cm ²
Aroclor-1262	ND	0.500 μg/100 cm ²

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

%REC

RPD

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/21/2023 09:00

Source

Reported:

Spike

1.000

1.000

01/09/2024 15:21

71

85

21-123

17-128

Quality Control (Continued)

Reporting

GC-SVOA (Continued)

Analyte	Result Qual	Limit Units	Level	Result	%REC	Limits	RPD	Limit
Batch: BCA0077 - SW846 354	OC (Continued)							
Blank (BCA0077-BLK1)		Pro	epared: 1/3	3/2024 Analyzed	d: 1/4/2024	1		
Aroclor-1268	ND	0.500 μg/100 cm ²						
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		73	21-123		
Surrogate: Decachlorobiphenyl			1.000		89	17-128		
LCS (BCA0077-BS1)		Pro	epared: 1/3	3/2024 Analyzed	d: 1/4/2024	1		
Aroclor-1016	8.53	0.500 μg/100 cm ²	10.00		85	37-120		
Aroclor-1260	9.86	0.500 μg/100 cm ²	10.00		99	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		<i>78</i>	21-123		
Surrogate: Decachlorobiphenyl			1.000		88	17-128		
LCS Dup (BCA0077-BSD1)		Pro	epared: 1/3	3/2024 Analyzed	d: 1/4/2024	1		
Aroclor-1016	7.95	0.500 μg/100 cm ²	10.00		79	37-120	7	25
Aroclor-1260	9.48	0.500 μg/100 cm ²	10.00		95	45-121	4	25

Surrogate: Tetrachloro-m-xylene

Surrogate: Decachlorobiphenyl

Surrogate(s)

Batch: BCA0131 - SW846 3540 Blank (BCA0131-BLK1)	C	Prepared: 1/4/20	24 Analyzed: 1/8/2024	1	
Aroclor-1016	ND	0.500 μg/100 cm ²	, , _ ,		
Aroclor-1221	ND	0.500 µg/100 cm ²			
Aroclor-1232	ND	0.500 µg/100 cm ²			
Aroclor-1242	ND	0.500 µg/100 cm ²			
Aroclor-1248	ND	0.500 µg/100 cm ²			
Aroclor-1254	ND	0.500 μg/100 cm ²			
Aroclor-1260	ND	0.500 μg/100 cm ²			
Aroclor-1262	ND	0.500 μg/100 cm ²			
Aroclor-1268	ND	0.500 μg/100 cm ²			
Surrogate(s)					
Surrogate: Tetrachloro-m-xylene		1.000	<i>76</i>	21-123	
Surrogate: Decachlorobiphenyl		1.000	<i>78</i>	17-128	



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 12/21/2023 09:00 Reported: 01/09/2024 15:21

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0131 - SW846 354	OC (Continued)							
LCS (BCA0131-BS1)	-	Pr	epared: 1/4	1/2024 Analyze	ed: 1/8/2024	1		
Aroclor-1016	6.45	0.500 μg/100 cm ²	10.00		64	37-120		
Aroclor-1260	7.17	0.500 μg/100 cm ²	10.00		72	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		59	21-123		
Surrogate: Decachlorobiphenyl			1.000		68	17-128		
LCS Dup (BCA0131-BSD1)		Pr	epared: 1/4	1/2024 Analyze	ed: 1/8/2024	ŀ		
Aroclor-1016	8.58 RO	0.500 μg/100 cm ²	10.00		86	37-120	28	25
Aroclor-1260	9.50 RO	0.500 μg/100 cm ²	10.00		95	45-121	28	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		<i>77</i>	21-123		
Surrogate: Decachlorobiphenyl			1.000		88	17-128		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens Project Name: NCSU PH

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
SW846-8082A in Wipe			
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1262 [2C]	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367620 LIMS Reference ID: AB67620

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/21/2023 09:00

 Reported:
 01/09/2024 15:21

Notes and Definitions

Item	Definition
RO	RPD for this compound was outside of the control limits.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MICHIGAN, IIIO. 200 Rt. 130 N

Cinnaminson, NJ 08077

EMSL ANALYTICAL, INC.					MB	0760	20					1.5	1				300) 220-3	
Customer ID:		3			* ATT AND TO			Billing ID: 5	ame	as	cui	tome	_	-	E	AAIL: E	nvChemist	ry2@EMSL.com
Company Name: 620	yn.	teu	Consul	tants			= 0	Company Name		*()	0 -1-	71						
Contact Name:		ren:					nation	illing Contact:										
Street Address: 1300		Son		1+ 5+ 6	uite 300		Inform	treet Address:										
City, State, Zip:			16 282		Country: USA	h	D C	ity, State, Zip:					-			C	ountry:	
Company Name: 6000 Contact Name: 5000 Street Address: 1300 City, State, Zip: 4000 Phone: 704-2					U 37	-	Billing	hone:										
Empil(a) for Departs			@geosyn	+c (Lom			-	mail(s) for Inve	oice:									
Project Name/No: N (S M)		.,,,) 1003/11	(0.001)								Pı	urchase	Order:				
EMSL LIMS Project ID: (If applicable, EMSL will provide)								ate where es collected:	NC	S	tate of			nust sele Taxable)	ct project lo		ial (Non-	Taxable)
Samples for Compliance? Yes		No	If Yes, NPDE		s No	Other (Specif	fy)			P	WS):						Reporting es	Required?
Samples Collected by (Check One		-	EMSL	CLIENT	Samples Received (Chilled?		Yes	N	10		e(s) Tempe ceipt (LA						
Sampled By Name:	n F	Bras	nd /Marc	Sampled By Sign	nature: Oma	BI	a	nd 1.	My	1	m	and the second	ONE	1		No. of S in Shipm		31
Turn-Around-Time (TAT)			ard Turn-Around		2 Weeks			TAT's are subject firm TAT before		roval.		1 Week		1 Days	3 Days		2 Days	1 Day
Client Sample ID	Comp	Grab	Date / Time Collected	Matrix W=Water S=Soil A=Air SL=Sludge O=Other	Preservative 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	EPA BOBZA/	est 2:	t Test(s) Nee	ded (Write	e in test 2:	below	est est	Test 7:	eample lii	ne:)	-	Comme	ents
W-033 - 400 -1220202		X	12/20/23 15	25 0	4,5 AB	X	1	ПГ	$\exists \vdash \Gamma$	$\neg \vdash$	П		T					- 514
W-034-4026-1220203		X		505 0	4.5 AB	X	ş	5 16		100	Н		+		H			0
W-035-406-12 202023		X	12/20/23	\$15 0	4.5 KB	X				3 1				\dashv				- 1
W-036-4126-12202023		X	12/20/23 19	20 0	4 5 AP	X	9				8				12.	7.77		
Preservative is	ac	eton	Special Insti	ructions and/or Re	egulatory Requirement	ts (Samp	ole Sp	pecifications, P	rocessing N	Methods,	Limits	of Detectio	n, etc.)			7	Q.	706
Reporting Requirement	nts:		Resu	Its Only	Results and QC		Γ	Reduced Del	verables		Hz	results EDI	D	E	xcel			escribe Above)
Method of Shipment: Fedex				2/2			Sa	ample Conditio	n Upon Re	ceipt:								
Relinquished by: Own &		a			120/23 1	730	Re	eceived by:	al pic.	C	ollo	ren Pa	lla	Luno	Date/Ti	me la	1/22	9Am
Relinquished by:				Date/Time:	irta i Perandel	(a.7)	Re	eceived by:		14			5-00	271,10	Date/Ti	me	1040	
ontrolled Document - COC-07 Chemistry R	11 02/26	5/2021	AGREE TO	FI FCTDONIC SIGNA	THE /D. sharking I am	nnt to alma!	11.7.	01.1.0		P	Jan- ve		4.57	NAME OF		-	7.35	THE PARTY

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

4867620

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

				Matrix	Preservative	List	Test(s) N	eeded (V	Vrite in tes	st below, t	hen check	on sample	e line:)	
Client Sample ID	Сотр	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA BOBZA/ METhOD 3540C	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
-037 - 413 - 1220 2023		X	12/20/23 1	140 0	40	X								
V-038-414A-122020B		X	1	45 0	40	X								3 2
1-039 - 419-12202023	-9	Q	14	55 0	1.2	X								
v-040 - 424-1220 2028		X	19	00 0										kg"
1-041-500-12202023		X	14	00 0		X								
1-042-509-12202023		X	13	50 0	400	X								
-043-510E-12102013		N	13	45 0	400	X								
B						X	-							
ethod of Shipment: Fed dilinquished by:	2 \	/	- Arr			1	Sample Co	ndition Upo	on Receipt:			-0.2		

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

MSL ANALYTICAL INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

200 Rt. 130 N Cinnaminson, NJ 08077

2043

EMSL ANALYTICAL, INC.						AP	5676	20	6					20			NE: (800) 220	
Customer ID:						-		Billing I	D: 50	ame	as	CI	ustome	V		EM,	AIL: EnvChemi	stry2@EMSL.com
Company Name:	Tu	to	Consul	tanto		-	-	Compa	ny Name:	37.07.20.20.20.20.20.20.20.20.20.20.20.20.20.	013		is in the					
Contact Name:	6	Thre	Consul	IW. N			nation	Billing (Contact:									
Company Name: Contact Name: Street Address: City, State, Zip: Charle Phone: 704-73	0 .	T- /	nint St	. 1/N:	+ 300		Inform	Street A	ddress:									
City, State, Zip: Charle	/			0 /- 1	Country:			City, Sta	ate, Zip:								Country:	
Phone: 704-7		(40				Billing	Phone:									Journay.	,
									for Invoi	ce:		-						
Name/No: NCSU	PI	4	essynta	CEM							- 2	· .	F	urchase	Order:			3 %
EMSL LIMS Project ID: (If applicable, EMSL will provide)	,			1 -0 -5				State who		NC		State	of Connectic		nust selec		ition: sidential (Non	-Taxable)
Samples for Compliance?		No	If Yes,		Yes	No	Other (Specify)	,	,			PWS ID:					State Reportin	
Samples Collected by (Check One	e):		EMSL	CLIENT	Samples	Received C	hilled?		Yes		Vo		ple(s) Temp			F- (9		
Sampled By Name: Nor Webb, AN	NA	Bra	nol.	Sampled By S	Signature:			W	ma	fran	~d		Receipt (LA	BUNLY	1872.1		o. of Samples Shipment:	31
Turn-Around-Time (TAT)			ard Turn-Around	I-Time:	2 Weeks	Ĺ.	The followi	ng TAT's a	re subject T before si	to Lab app	oroval.		1 Week	4	Days	3 Days	2 Days	1 Day
				Matrix	Prese	ervative	L	ist Test	(s) Need	ed (Writ	e in te	st belo	w, then che	ck on s	ample lin	e:)		9
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other)4	Test 1:	Test 2:	Test 3:	Test 4:		est 5:	Test 6:	Test 7:	Test 8:		Comm	ents
W-044-514-12202023		X	1335	0-0/16/	4-8-			1 2		111		T		Г		\Box		
W-045-518-12202023		V	12/20/27	1	42					111	-	-						
W-046-526-12202023	W F	X	12/20/23		tor			1 -		1	\dashv	+		H-	\dashv	$H \vdash$		4.3
W-047-532-12202023		X	12/2-/23		49-		\vdash			9.8	+	-	1			H +		
	7		Special Instr	ructions and/or		equirements	s (Sample	Specifica	tions, Pro	ocessing	Method	s, Limit	ts of Detection	on, etc.)				
Reporting Requirement	nts:	6	Resu	lts Only	Resu	ilts and QC		Redu	ced Deliv	erables		F	Izresults ED	D	E	ccel	Other (E	escribe Above)
Method of Shipment: Fed ?)	X			201	180	7,4 2	%	Sample	Condition	Upon Re	ceipt:						3 (6	
Relinquished by:	2 32 1	an	d	Date/Time:	17.3 1	730		Received	I by:					14-77		Date/Tim	e	A REST
Relinquished by:	135			Date/Time:	10)	252		Received	by:		\$1	-	Table Transp		Terror	Date/Tim	е	
Controlled Document - COC-07 Chemistry R	11 02/26	3/2021							JEST W					-				

ACREE TO ELECTRONIC GIGNATURE (Du shooking Lagrantic signing this of 1000

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AB1671620

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

				Matrix	Preservative	List	Test(s) N	leeded (V	Vrite in te	st below,	then check	on sampl	e line:)	
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge	1 HCL 2 HNO3 3 H2SO4 4 ICE	6PA-8082A/ WETHEN 3540C	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
			unto to	O=Other	5 Other Describe in Special Instructions	EPA-								
W-048-529-12202023		X	1420/23	Other	497	X								7 7 - 200
1-049-604-12202023		X	12/20/23		42-	Q								144
N-050-6005-17202023		X	12/20/23		42									=10
1-051-607-12202023		X	12/20/23		49-									X Y
J-052-60ff-12202023		X	12/20/27		49									- B
J-053-613-12202023		X	12/20/27		42-	Q								
J-054-616A-1220202		X	12/20/23	V	4/87	X								
· O) O(1) D(LLL)			170		,									
lethod of Shipment:			L	- pl - 3			Sample Co	ondition Up	on Receipt	A 1810:		h.		-
Fedex Relinquished by: Oma Bre	m	1		Date/Time:	0/23 17	30	Received	by:					Date/Tir	me
Relinquished by:			1 23	Date/Time:	1		Received	by:	Jan.				Date/Ti	ne

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

3063

200 Rt. 130 N

200 Rt. 130 N Cinnaminson, NJ 08077

AB67620 PHONE: (800) 220-3675

	To						100	IV	0.0							F	-MAII · F	nvChemistr	y2@EMSL.com
_	Customer ID:								Billing ID	:	Sam	e 0	S Cu	stan	rer		25.	TV OTICITIIS I	72@EMOE.com
atior	Company Name: Geos	yn	te	c Con	sultan)	2 -		- L	Compan	y Name:			10			1.		17.	d'a
Customer Information	Contact Name: 3	ses	25	Ahrem	5			Information	Billing C	ontact:								-0440	
r Inf	Street Address: 1300	So	4.0	n min	× 5.4.	Swite 300	0	nfor	Street A	dress:								- 7	
ome	City, State, Zip: Charl	OHC	- 1	UC 280	203	Country:			City, Sta	e, Zip:							C	ountry:	
Sust	Phone: 704-2	27	- (2850				Billing	Phone:									-	
Ü	Email(s) for Report: JA	250	nsta	daency	n+0(-	(,0%)		1	Email(s)	for Invoic	e:								Marie Pro
Proj Nan	lect ne/No: NCSM			3003Y	111000							T:	F	Purchase	Order:				
	SL LIMS Project ID:		' '				_	US	State whe	re		State	of Connection	ut (CT) m	uist select r	project l	location:		
(If ap	plicable, EMSL will provide)							san	nples colle	cted: N	_	1 2.5		mercial (Toject		ial (Non-T	axable)
	nples for npliance?		No	If Yes, NPDE		es No	Oth (Spe	er ecify)				PWS ID:						Reporting 'es	Required?
	nples Collected by (Check One)			EMSL	CLIENT	Samples Received	Chille	d?		'es	No		ple(s) Temp						
San	npled By Name: Marc	W	ebb	/ Array Ban	Sampled By Si	gnature: Mm	v	1	Mn	r	1 an	va &	Receipt (LA	BUNLY)		No. of Sa in Shipm	amples	3 \
Tur	n-Around-Time (TAT)		Standa	ard Turn-Around	-Time:	2 Weeks			ng TAT's ar		o Lab appro	val.	1 Week	4	Days	3 Day	ys 🗍	2 Days	1 Day
					Matrix	Preservative		L	ist Test(s) Neede	ed (Write	in test belo	ow, then ch	eck on sa	ample line:	:)			
		Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	EPA 808 AA	9 35	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:			Comme	nts
N	1-055-630-1220			1315	0	none	Ty		П	$\top \Gamma$		\top		\sqcap	\top	\Box			
	056-700-12202023			12/20/23	D	none	Y	_				┥┼┝╸	1 -	╅┼┝	1	+			
	057-719-12202023			12/20/23	0	none		1							-				
	058-729-12202023			1045	0	none	y							1					
					ructions and/or F	Regulatory Requiremen	nts (Sa	mple	Specifical	ions, Prod	cessing Me	ethods, Lim	its of Detecti	on, etc.)					
	Reporting Requiremen	its:		Resu	lts Only	Results and QC	2		Reduc	ed Delive	erables		Hzresults E	DD	Exc	el		Other (De	scribe Above)
1eth	od of Shipment: Fede	L							Sample C	ondition (Jpon Rece	ipt:						3.	
Relin	equished by: Make	and	Í		Date/Time:	2/20/23 173	3 D	F	Received	by:						Date/	Time		
	equished by:	11.02/06/1	2021		Date/Time:				Received	by:	10g N	A. C.	1974	i	A 14	Date/	Γime		7 <u>4</u> 2.
OTHE C	med bocument - oco-or orienistry R1	11 02/26/2	2021																

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC.

EMSL Order Number / Lab Use Only

AB671020

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

			Special Ins	tructions and/or F	Regulatory Requirement	ts (Sample	Specificati	ons, Proce	ssing Metho	ods, Limits o	T Detection,	etc.)		
				Matrix	Preservative	List	Test(s) I	Needed (I	Write in te	st below, t	hen check	on sample	e line:)	
Client Sample ID	Сотр	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA 8087A Method 3540C	Test 2;	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
1-059-734-12202023			1100	0	none	X								
060 1-60-742-12202023			1105	0	none	X								
-061-744:175:4M			1120	0	none	X								
1-062-761-12202023			1040	0	none	X							2	
1-001-BIANK-122020			12202023		none	区								<u>/-</u>
														1 - 2
4.														
			121 4 1											
ethod of Shipment:	ex						Sample C	ondition Up	on Receipt:				N.	
Fed- dinquished by: Wor &	na	nel		Date/Time:	0/23 173	P	Received	by:				4 5	Date/T	me
linquished by:			1-74	Date/Time:			Received	by:					Date/T	me

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 09, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/22/2023. The results are tabulated on the attached pages for the following client designated project:

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

NCSU PH

The reference number for these samples is EMSL Order #: <u>AB67733</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

Table of Contents

Cover Letter	1
Sample Condition on Receipt	3
Samples in Report	4
Positive Hits Summary	5
Sample Results	8
Quality Assurance Results	45
Certified Analyses	47
Certifications	47
Qualifiers, Definitions and Disclaimer	48
Chain of Custody PDF	49



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Condition on Receipt

Cooler ID: Default Cooler Temperature: 1.0 °C

Custody Seals Y

Containers Intact Y

COC/Labels Agree Y

Preservation Confirmed Y

EMSL Analytical, Inc. 200 Route 130, Cinnaminson, NJ, 08077

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

LIMS Reference ID: AB67733 **EMSL Customer ID:** GSCH75

EMSL Order ID: 012367733

Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AB67733-01	W-030-325-12212023	Wipe	12/21/2023	12/22/2023
AB67733-02	W-025-300D-12212023	Wipe	12/21/2023	12/22/2023
AB67733-03	W-031-326S-12212023	Wipe	12/21/2023	12/22/2023
AB67733-04	W-026-309-12212023	Wipe	12/21/2023	12/22/2023
AB67733-05	W-024-310L-12212023	Wipe	12/21/2023	12/22/2023
AB67733-06	W-029-313-12212023	Wipe	12/21/2023	12/22/2023
AB67733-07	W-027-312-12212023	Wipe	12/21/2023	12/22/2023
AB67733-08	W-028-312-12212023	Wipe	12/21/2023	12/22/2023
AB67733-09	W-023-222-12212023	Wipe	12/21/2023	12/22/2023
AB67733-10	W-022-220-12212023	Wipe	12/21/2023	12/22/2023
AB67733-11	W-014-218-12212023	Wipe	12/21/2023	12/22/2023
AB67733-12	W-020-213-12212023	Wipe	12/21/2023	12/22/2023
AB67733-13	W-019-210-12212023	Wipe	12/21/2023	12/22/2023
AB67733-14	W-021-216-12212023	Wipe	12/21/2023	12/22/2023
AB67733-15	W-018-208Q-12212023	Wipe	12/21/2023	12/22/2023
AB67733-16	W-015-201-12212023	Wipe	12/21/2023	12/22/2023
AB67733-17	W-016-202-12212023	Wipe	12/21/2023	12/22/2023
AB67733-18	W-017202-12212023	Wipe	12/21/2023	12/22/2023
AB67733-19	W-007-120-12212023	Wipe	12/21/2023	12/22/2023
AB67733-20	W-005-117-12212023	Wipe	12/21/2023	12/22/2023
AB67733-21	W-006-117-12212023	Wipe	12/21/2023	12/22/2023
AB67733-22	W-008-125-12212023	Wipe	12/21/2023	12/22/2023
AB67733-23	W-011-197-12212023	Wipe	12/21/2023	12/22/2023
AB67733-24	W-009-127-12212023	Wipe	12/21/2023	12/22/2023
AB67733-25	W-010-130-12212023	Wipe	12/21/2023	12/22/2023
AB67733-26	W-002-101-12212023	Wipe	12/21/2023	12/22/2023
AB67733-27	W-014-103B-12212023	Wipe	12/21/2023	12/22/2023
AB67733-28	W-004-103-12212023	Wipe	12/21/2023	12/22/2023
AB67733-29	W-003-102A-12212023	Wipe	12/21/2023	12/22/2023
AB67733-30	W-012-198-12212023	Wipe	12/21/2023	12/22/2023
AB67733-31	W-064-P1001A-12212023	Wipe	12/21/2023	12/22/2023
AB67733-32	W-063-P1000A-12212023	Wipe	12/21/2023	12/22/2023
AB67733-33	W-065-P1004-12212023	Wipe	12/21/2023	12/22/2023
AB67733-34	W-066-P1003-12212023	Wipe	12/21/2023	12/22/2023
AB67733-35	W-067-116-12212023	Wipe	12/21/2023	12/22/2023
AB67733-36	W-068-100-12212023	Wipe	12/21/2023	12/22/2023
AB67733-37	W-013-199-12212023	Wipe	12/21/2023	12/22/2023

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012367733 LIMS Reference ID: AB67733 EMSL Customer ID: GSCH75

Project Name: NCSU PH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Positive Hits Summary

Lab ID	Client ID				Sampled
AB67733-02	W-025-300D-12212023				12/21/23 08:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	74.6	D	μg/100 cm²	01/03/2024 21:57
Lab ID	Client ID				Sampled
AB67733-05	W-024-310L-12212023				12/21/23 09:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.87		μg/100 cm²	01/03/2024 16:42
Lab ID	Client ID				Sampled
AB67733-06	W-029-313-12212023				12/21/23 09:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.763		μg/100 cm²	01/03/2024 17:03
Lab ID	Client ID				Sampled
AB67733-08	W-028-312-12212023				12/21/23 09:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.529		μg/100 cm²	01/03/2024 17:45
Lab ID	Client ID				Sampled
AB67733-09	W-023-222-12212023				12/21/23 09:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.733		μg/100 cm²	01/03/2024 18:06
Lab ID	Client ID				Sampled
AB67733-10	W-022-220-12212023				12/21/23 10:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	9.49		μg/100 cm²	01/03/2024 18:27
Lab ID	Client ID				Sampled
AB67733-11	W-014-218-12212023				12/21/23 10:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.644		μg/100 cm²	01/03/2024 18:48



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

NCSU PH Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AB67733-12	W-020-213-12212023				12/21/23 10:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.673		μg/100 cm²	01/03/2024 19:09
Lab ID	Client ID				Sampled
AB67733-27	W-014-103B-12212023				12/21/23 12:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	7.40		μg/100 cm²	12/27/2023 14:44
Lab ID	Client ID				Sampled
AB67733-30	W-012-198-12212023				12/21/23 13:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.592		μg/100 cm²	12/27/2023 15:47
Lab ID	Client ID				Sampled
AB67733-33	W-065-P1004-12212023				12/21/23 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2.87		μg/100 cm²	12/27/2023 16:51
Lab ID	Client ID				Sampled
AB67733-34	W-066-P1003-12212023				12/21/23 14:35
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	7.88		μg/100 cm²	12/27/2023 17:12
Lab ID	Client ID				Sampled
AB67733-35	W-067-116-12212023				12/21/23 14:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.12		μg/100 cm²	12/27/2023 17:33
Lab ID	Client ID				Sampled
AB67733-36	W-068-100-12212023				12/21/23 14:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.95		μg/100 cm²	12/27/2023 17:54



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported:

01/09/2024 12:07

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AB67733-37	W-013-199-12212023				12/21/23 13:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.573		μg/100 cm²	12/27/2023 18:15



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results

Sample: W-030-325-12212023 AB67733-01 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			21-123		01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	78%			17-128		01/02/24 10:48	01/03/24 15:17	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-025-300D-12212023 AB67733-02 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	74.6	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	20	10.0	μg/100 cm²	01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	95%			21-123		01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	109%			17-128		01/02/24 10:48	01/03/24 21:57	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

Received: Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-031-326S-12212023 AB67733-03 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	79%			17-128		01/02/24 10:48	01/03/24 16:00	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-026-309-12212023 AB67733-04 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	77%			17-128		01/02/24 10:48	01/03/24 16:21	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-024-310L-12212023 AB67733-05 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.87		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			21-123		01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	74%			17-128		01/02/24 10:48	01/03/24 16:42	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-029-313-12212023 AB67733-06 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.763		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	77%			17-128		01/02/24 10:48	01/03/24 17:03	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-027-312-12212023 AB67733-07 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	55%			21-123		01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	67%			17-128		01/02/24 10:48	01/03/24 17:24	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

12/22/2023 10:20

Emily Stressman

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-028-312-12212023 AB67733-08 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.529		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		01/02/24 10:48	01/03/24 17:45	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 12/22/2023 10:20

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-023-222-12212023 AB67733-09 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.733		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 18:06	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 12/22/2023 10:20

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-022-220-12212023 AB67733-10 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	9.49		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			21-123		01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	83%			17-128		01/02/24 10:48	01/03/24 18:27	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

Customer PO:

EMSL Sales Rep: Received: Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-014-218-12212023 AB67733-11 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.644		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	61%			21-123		01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 18:48	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-020-213-12212023 AB67733-12 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.673		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	57%			21-123		01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	71%			17-128		01/02/24 10:48	01/03/24 19:09	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-019-210-12212023 AB67733-13 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 19:30	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-021-216-12212023 AB67733-14 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			21-123		01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	73%			17-128		01/02/24 10:48	01/03/24 19:51	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-018-208Q-12212023 AB67733-15 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	71%			21-123		01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	83%			17-128		01/02/24 10:4	8 01/03/24 20:12	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-015-201-12212023 AB67733-16 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			21-123		01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	76%			17-128		01/02/24 10:48	01/03/24 20:54	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-016-202-12212023 AB67733-17 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	55%			21-123		01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	62%			17-128		01/02/24 10:48	01/03/24 21:15	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-017--202-12212023 AB67733-18 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	81%			17-128		01/02/24 10:48	01/03/24 21:36	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-007-120-12212023 AB67733-19 (Wipe)

Analyte	Result (Q DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA									
Aroclor-1016	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q	Limits	5					
Surrogate: Tetrachloro-m-xylene	68%		21-12	3	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%		17-12	8	12/26/23 12:13	12/28/23 16:15	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-005-117-12212023 AB67733-20 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	57%			21-123		12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	71%			17-128		12/26/23 12:13	12/28/23 16:42	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-006-117-12212023 AB67733-21 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	84%			17-128		12/26/23 12:13	12/28/23 17:04	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-008-125-12212023 AB67733-22 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	58%			21-123		12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	74%			17-128		12/26/23 12:13	12/28/23 17:26	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results
(Continued)

Sample: W-011-197-12212023 AB67733-23 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			21-123		12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		12/26/23 12:13	12/28/23 17:48	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-009-127-12212023 AB67733-24 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			17-128		12/26/23 12:13	12/28/23 18:10	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-010-130-12212023 AB67733-25 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			21-123		12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	75%			17-128		12/26/23 12:13	12/28/23 18:31	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-002-101-12212023 AB67733-26 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	52%			21-123		12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	70%			17-128		12/26/23 12:13	12/28/23 18:53	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-014-103B-12212023 AB67733-27 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	7.40		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	69%			21-123		12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		12/26/23 12:13	12/27/23 14:44	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-004-103-12212023 AB67733-28 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			21-123		12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	90%			17-128		12/26/23 12:13	12/27/23 15:05	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-003-102A-12212023 AB67733-29 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	61%			21-123		12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	89%			17-128		12/26/23 12:13	12/27/23 15:26	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-012-198-12212023 AB67733-30 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.592		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	100%			17-128		12/26/23 12:13	12/27/23 15:47	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-064-P1001A-12212023

AB67733-31 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	91%			17-128		12/26/23 12:13	12/27/23 16:08	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-063-P1000A-12212023

AB67733-32 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			21-123		12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	95%			17-128		12/26/23 12:13	12/27/23 16:30	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-065-P1004-12212023

AB67733-33 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	2.87		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			21-123		12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	95%			17-128		12/26/23 12:13	12/27/23 16:51	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-066-P1003-12212023 AB67733-34 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	7.88		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			21-123		12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	94%			17-128		12/26/23 12:13	12/27/23 17:12	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 12/22/2023 10:20

 Reported:
 01/09/2024 12:07

Sample Results (Continued)

Sample: W-067-116-12212023 AB67733-35 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.12		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	67%			21-123		12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	91%			17-128		12/26/23 12:13	12/27/23 17:33	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

Customer PO:

EMSL Sales Rep: Received: Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-068-100-12212023 AB67733-36 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.95		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			21-123		12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	88%			17-128		12/26/23 12:13	12/27/23 17:54	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

Customer PO:

EMSL Sales Rep: Received: Emily Stressman 12/22/2023 10:20

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Reported: 01/09/2024 12:07

Sample Results (Continued)

Sample: W-013-199-12212023 AB67733-37 (Wipe)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	0.573		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.500	μg/100 cm²	12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	75%			21-123		12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	96%			17-128		12/26/23 12:13	12/27/23 18:15	SXD/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

NCSU PH

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20

Reported: 01/09/2024 12:07

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit U	Jnits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0824 - SW846 3540C									
Blank (BBL0824-BLK1)			Prepare	ed: 12/26	/2023 Analyze	d: 12/28/20	23		
Aroclor-1016	ND	0.500 µg/1		, -,	,				
Aroclor-1221	ND	0.500 µg/1							
Aroclor-1232	ND	0.500 µg/1	100 cm ²						
Aroclor-1242	ND	0.500 μg/1	100 cm ²						
Aroclor-1248	ND	0.500 μg/1	100 cm ²						
Aroclor-1254	ND	0.500 μg/1	100 cm ²						
Aroclor-1260	ND	0.500 μg/1	100 cm ²						
Aroclor-1262	ND	0.500 μg/1	100 cm ²						
Aroclor-1268	ND	0.500 μg/1	100 cm ²						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				1.000		61	21-123		
Surrogate: Decachlorobiphenyl				1.000		73	17-128		
LCS (BBL0824-BS1)			Prepare	ed: 12/26,	/2023 Analyze	d: 12/28/20	23		
Aroclor-1016	6.92	0.500 μg/1	100 cm ²	10.00		69	37-120		
Aroclor-1260	7.91	0.500 μg/1	100 cm ²	10.00		79	45-121		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				1.000		66	21-123		
Surrogate: Decachlorobiphenyl				1.000		80	17-128		
LCS Dup (BBL0824-BSD1)			Prepare	ed: 12/26,	/2023 Analyze	d: 12/28/20	23		
Aroclor-1016	7.09	0.500 μg/1	100 cm ²	10.00		71	37-120	2	25
Aroclor-1260	8.35	0.500 μg/1	100 cm ²	10.00		83	45-121	5	25
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				1.000		63	21-123		
Surrogate: Decachlorobiphenyl				1.000		84	17-128		

Batch: BCA0010 - SW846 3540C

Blank (BCA0010-BLK1)		Prepared: 1/2/2024 Analyzed: 1/3/202
Aroclor-1016	ND	0.500 μg/100 cm ²
Aroclor-1221	ND	0.500 μg/100 cm ²
Aroclor-1232	ND	0.500 μg/100 cm ²
Aroclor-1242	ND	0.500 μg/100 cm ²
Aroclor-1248	ND	0.500 μg/100 cm ²
Aroclor-1254	ND	0.500 μg/100 cm ²
Aroclor-1260	ND	0.500 μg/100 cm ²
Aroclor-1262	ND	0.500 μg/100 cm ²

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com **Project Name:**

NCSU PH

Emily Stressman

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

%REC

RPD

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

Source

Spike

Quality Control (Continued)

Reporting

GC-SVOA (Continued)

Analyte	Result Qual	Limit Units	Level	Result	%REC	Limits	RPD	Limit
Batch: BCA0010 - SW846 354	10C (Continued)							
Blank (BCA0010-BLK1)			Prepared: 1/2	2/2024 Analyz	ed: 1/3/2024	1		
Aroclor-1268	ND	0.500 μg/100 cr	n²					
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		67	21-123		
Surrogate: Decachlorobiphenyl			1.000		73	17-128		
LCS (BCA0010-BS1)			Prepared: 1/2	2/2024 Analyz	ed: 1/3/2024	1		
Aroclor-1016	7.47	0.500 μg/100 cr	n² 10.00		75	37-120		
Aroclor-1260	8.43	0.500 μg/100 cr	n ² 10.00		84	45-121		
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		68	21-123		
Surrogate: Decachlorobiphenyl			1.000		<i>72</i>	17-128		
LCS Dup (BCA0010-BSD1)			Prepared: 1/2	2/2024 Analyz	ed: 1/3/2024	1		
Aroclor-1016	7.44	0.500 μg/100 cr	n ² 10.00		74	37-120	0.4	25
Aroclor-1260	8.45	0.500 μg/100 cr	n ² 10.00		85	45-121	0.3	25
Surrogate(s)								
Surrogate: Tetrachloro-m-xylene			1.000		65	21-123		
Surrogate: Decachlorobiphenyl			1.000		71	17-128		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:** NCSU PH

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported: 01/09/2024 12:07

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
SW846-8082A in Wipe			
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1262 [2C]	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH

EMSL Order ID: 012367733 LIMS Reference ID: AB67733

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 12/22/2023 10:20 Reported:

01/09/2024 12:07

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Controlled Document - COC-07 Chemistry R11 02/26/2021

Page 10x 7

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MININGER, IIIV. 200 Rt. 130 N

Cinnaminson, NJ 08077

1.0°C

EM	SL ANALYTICAL, INC.	0							ABL	0773	53								ONE: (80		675 y2@EMSL.com
_	Customer ID:							В	illing ID:	50	im	2 1	215	Ch	(10	me	v i	nto		Chemistr	y2@EMSL.com
Customer Information	Company Name: Geos	yn	tec	Consu	itants			6	company Na	ame:											
orm	Contact Name: JeA	4	thr	ens				Billing Information	illing Conta	ct:											
r Inf	Street Address: 13 00				- St Su	vite 300		S	treet Addre	ss:											
ome				NU 29		Country: USA		l G	ity, State, Z	ip:									Co	untry:	
Sust	Phone: 704 - 2					-		BIII	hone:			20								-	
Ü	[: 1/ - \ C D .			@ geosy	intec.co	om	-	E	mail(s) for	nvoice:			-								
Proj	ect pl/(//			O Good,				1						P	urchas	se Orde	er:				
	SL LIMS Project ID:	1 (1					10 04	ato udano			101									
	plicable, EMSL will provide)								ate where es collected	: N	10	Sta	te of Co			must s (Taxal		roject loc	cation: tesidentia	l (Non-T	axable)
	pples for Yes	Г	1 No	If Yes, f		s No	Other					PW	S							•	Required?
	ipilarios:	<u> </u>	No	NPDES	6?		(Speci	ify)				ID:							Ye	s	No
	iples Collected by (Check One):		EMSL	CLIENT	Samples Received C	Chilled?		Yes		No	Sa	mple(s Rece	Tempe)				
	pled By Name: Inna Brand /Ma	n W	101	dala	Sampled By Sign	nature:	/	//	Kn	///	1111	In	_						No. of San		PACIFIC AND ADDRESS OF THE PACIFIC AND ADDRESS O
	n-Around-Time (TAT)	NIC		ard Turn-Around-	1. 7		The follo	owing	TAT's are su	bject to La	ab approv	al.	1	Week		4 Day	.	3 Days		Days	1 Day
			Г				Call lab		firm TAT bet						_				2	Days	1 Day
					Matrix	Preservative		J	t Test(s) N	reeded	(write ir	test b	elow, th	en che	ck on	sampl	e line:))			Particular.
	Client Samula ID	dμ	ap	D	W=Water S=Soil	1 HCL 2 HNO3	SUEZA SUEZA	3540	,												1000
	Client Sample ID	Comp	Grab	Collected	A=Air	3 H2SO4 4 ICE	st 1:	mod Test 2:	est 3:		est 4:	est 5:	ć	9	t 7:		est 8:		C	comme	nts
					SL=Sludge O=Other	5 Other	Ψ	7	Les		Tes	Tes	1	200	Test		Tes				
						Describe below in Special Instructions	EPA	Mc													
N-	030-325-12212023		X	12/21/23 08	5 0	None	X												10×(1	ocm	wife
V-(125-300D-12212023		X	1 08	40 1		X		7			4								1	
N-	031-3265-12212023		X	OB	55		X													+	
N-	026-309-12212023		X	1 090		1	X													T	
		1	00.		uctions and/or Re	egulatory Requirement	s (Sam	ple Sp	ecifications	, Proces	sing Met	hods, Li	mits of	Detectio	n, etc.)					
	FX#	1	881	- 1860 0)d80																
	Reporting Requirement	nts:		Result	ts Only	Results and QC			Reduced	Deliverab	les		Hzres	ults EDI	D		Exce	el	0	ther (Des	scribe Above)
	od of Shipment: FEDE	X		21.1				Sa	imple Cond	ition Upo	n Receip	ot:									
elin	quished by:	ha	ng		Date/Time: / 2	121/23 170	D	Re	eceived by:	29m	ne	eln						Date/Tin	22/2	2 11	12042
elin	quished by:	-		1	Date/Time:	1		Re	eceived by:			-	1					Date/Tim	look)) 10	:200m

Page 2 of 7 EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

com

			Special Inst	ructions and/or R	egulatory Requiremen	ts (Sample	Specificati	ons, Proces	ssing Metho	ds, Limits o	of Detection,	etc.)			
				Matrix	Preservative	List	Test(s) N	leeded (V	Vrite in te	st below, t	then check	on sampl	e line:)		
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA 8082A Method 3540C	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Con	nments
W-024-310L-1271 2023		X	12/2/123 00	110 0	None	X								10×10	cm vipe
W-029-313-12212023		X	1 092	7	ĺ	X								A 11.	
W-027-312-12212023		X	092	5		X									and the second second
N-028-312-122 (2023		X	092	5		X									
W-023-222-1221202		X	094	5		X									
W-022-220-1221202	5	X	095	0		X									
W-014-218-12212023		X	1000			X				П					
(B)															
							Sample Co	ondition Up	on Receipt:						
Method of Shipment: FEDEX Relinquished by: Relinquished by:	na	nd	/	Date/Time: 2 21	123 1700		Received I	oy:					Date	/Time	
Relinquished by:				Date/Time:			Received I	by:					Date	/Time	

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EME EMSL ANALYTICAL, INC.

Page 3 OF 7

Environmental Chemistry Chain of Custody EMSL Order Number / Lab Use Only

LIVIUL MINITURAL HIV 200 Rt. 130 N

Cinnaminson, NJ 08077

PHONE:	(800) 220-3675	

EMAIL: EnvChemistry2@EMSL.com Customer ID: Billing ID: same as customer into Company Name: Company Name: Geosyntel Consultants Contact Name: Billing Contact: Jeff Ahrens Street Address: 1300 South Mint St Suite 300 Street Address: Customer City, State, Zip: Country: Billing Chanotte, NC 28203 City, State, Zip: MSA Country: Phone: 704-227-0050 Phone: Email(s) for Report: JAhrens @ geosyntec.com Email(s) for Invoice: Project Purchase Order: NCSU PH Name/No: EMSL LIMS Project ID: US State where State of Connecticut (CT) must select project location: (If applicable, EMSL will provide) samples collected: NO Commercial (Taxable) Residential (Non-Taxable) Samples for Other **PWS** If Yes, for State Reporting Required? Yes No Yes Compliance? (Specify) NPDES? ID: Yes No Samples Received Chilled? Samples Collected by (Check One): Sample(s) Temperature Upon **EMSL** CLIENT Yes No Receipt (LAB ONLY) Sampled By Name: Sampled By Signature: No. of Samples am a Brand Anna Brand Imarc Webb in Shipment: The following TAT's are subject to Lab approval. Turn-Around-Time (TAT) Standard Turn-Around-Time: 2 Weeks 1 Week 4 Days 3 Days Call lab to confirm TAT before submittal: 2 Davs 1 Day Matrix **Preservative** List Test(s) Needed (Write in test below, then check on sample line:) \$002A1 1 HCL W=Water Comp 2 HNO3 Date / Time S=Soil Client Sample ID 3 H2SO4 Comments Collected A=Air 4 ICE SL=Sludge 5 Other O=Other Describe below in Special Instructions 12W-020-213-12212023 12/21/23 1005 None 10×10cm WIPE 13 W-019-210-12212023 1015 14 W-021-216-12212023 1020 KW-019-206Q-12212023 030 Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Reporting Requirements: Results Only Results and QC Reduced Deliverables Hzresults EDD Excel Other (Describe Above) Method of Shipment: Sample Condition Upon Receipt: Relinquished by: Date/Time: Received by: Date/Time Relinquished by: Date/Time: Received by: Date/Time Controlled Document - COC-07 Chemistry R11 02/26/2021 AGREE TO ELECTRONIC SIGNATURE (Durchooking Lagrage to significants) Chate Co.

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC. Page 40F

,	11 6	-	EMSL Order Number / Lab Use Only	
age	408	7		

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody	are only	necessa	ry if needed for add Special Inst	itional sample inform ructions and/or R	ation egulatory Requiremen	ts (Sample	Specification	ons, Proces	sing Metho	ds, Limits o	f Detection,	etc.)		
				Matrix	Preservative	List	Test(s) N	eeded (V	Vrite in tes	st below, to	hen check	on sample	e line:)	
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	EPA 5082A / Method 3540C	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
W-015-201-12212023		X	12/21/23	1040 O	None	X								10×10 cm wipe
W-016-202-12212023		X	1045		j	X								
W-017-202-12212023		X	1045			X								
W-007-120-12212023		X	1110			X								
W-005-117-12212023		X	1120			X								
W-006-117-12212023		X	1120			X	×							
W-008-125-12212023		X	1135	V		X								
AB														
Method of Shipment:	DE	X							on Receipt:				1	
Relinquished by:	BI	ar	d	Date/Time: 2/2/	123 1700	>	Received I							/Time
Relinquished by: Controlled Document - COC-07 Chemistry				Date/Time:	,	2	Received I	by:					Date	/Time

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL ANALYTICAL, INC.

Page 5 of 7

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MICHIGAN, 1110. 200 Rt. 130 N

Cinnaminson, NJ 08077

PHONE: (800) 220-3675

Customer ID:		,					Dilli ID						EM,	AIL: EnvChemis	try2@EMSL.com
Company Name:							Billing ID:	ame	as cu	stomer	int	0			
Contact Name: Tak		ec Cons	intants.			ion	Company Nam	e:							
Street Address:						rmat	Billing Contact:	190			8				
City State 7500		uth Mint		1te 300		Information	Street Address								
Company Name: Geos Contact Name: Jeff Street Address: 1300 City, State, Zip: Chari Phone: 704-22	otte	NU 28	203	Country: USA		Billing	City, State, Zip:							Country:	
	7 -	0850				Bill	Phone:								
		ns @ geo	syntec.	2000		ļ	Email(s) for Inv	oice:							
Name/No: NCSU										P	urchas	se Order:			
EMSL LIMS Project ID: (If applicable, EMSL will provide)							ate where	À 6	Stat	te of Connecticu	ut (CT)	must select	project loca	tion:	
)	les collected:	NC	-	1 1		(Taxable)		sidential (Non-	Гахаble)
Samples for Compliance?		No If Ye		es No	Other (Spec				PW:	S				State Reporting	Required?
Samples Collected by (Check One):		EMSL	CLIENT	Samples Received					0	mple(s) Tempe	arati in			Yes	No
Sampled By Name:		LIVIOL	Sampled By Sig				Yes	N	0 34	Receipt (LAI	B ONL	.Y)			
Anna Brand/	Ma	rc Webb	OW	20 Draw	rd		M	3	- M	Ille				o. of Samples Shipment:	
Turn-Around-Time (TAT)	S	tandard Turn-Arour	nd-Time:	2 Weeks	The foll	owing to co	TAT's are subject	ct to Lab appr	oval.	1 Week		4 Days	3 Days	2 Days	1 Day
			Matrix	Preservative					in test be	elow, then che	ck on	sample line			1.549
Client Sample ID	Comp	ପ୍ର Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	DPA SUSTA	Method 3540C	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:		Comme	nts
W-011-197-12212023		X 12/21/23 11	40 0	None	X		ПІГ				\top		1 1) belonger	i ()2
W-009-127-12212023		X 1 114	5 1	1	X						+			xlocm i	Nipe
W-010-130-12212023		X)15			X						+		-		
W-002-101-12212023		< 1 / 121	00 1	1	X				+ + +	+ + +	+				
,		Special Ins	tructions and/or Re	egulatory Requirement	ts (Śam _i	ple Sp	ecifications, P	ocessing M	ethods, Lir	nits of Detection	n, etc.)				
5			Win 7												97.
Reporting Requirements Method of Shipment:	S:	Resi	ults Only	Results and QC	1.30		Reduced Deli			Hzresults EDD)	Exc	el	Other (De	scribe Above)
17 DEX		No. 100				Sa	ample Condition	Upon Rece	eipt:						
Relinquished by: Ma Ru	un	el	Date/Time: 12	121/23 17	00	R	eceived by:						Date/Time	1	
Relinquished by:	10 20 2	1	Date/Time:			Re	eceived by:					-	Date/Time		
controlled Document - COC-07 Chemistry R11 (21													1

EME
EMSL ANALYTICAL, INC.

Page	6	of	7	Environmental Chemistry Chain of Custody	
rage				EMSL Order Number / Lab Use Only	

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

dditional Pages of the Chain of Custody			Special Inst	ructions and/or Re	egulatory Requiremen	ts (Sample S	Specification	ns, Proces	sing Metho	ds, Limits of	f Detection,	etc.)		
				Matrix	Preservative	List	Γest(s) N	eeded (V	Vrite in tes	st below, t	hen check	on sample	e line:)	
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	1981: EPA 8082A / Method 3540C	7 1591	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
W-014-103B-12212023		X	2 21 23	210 0	None	X								lox10 cm mipe
W-004-103-12212023		X	121			X								
N-003- 02A-1221202	3	X	122	0		X								
W-013-199-122120		X	134	5		X								
W-012-198-1221		X	135	70		\times								
W-064-P1001A-12		X	1419			\boxtimes								
N-063-P1000A-1221		X	142	0		X								
AB AB														
Method of Shipment:	EX	ć					Sample C	ondition Up	oon Receipt	:			J	
TEL stellinguished by:	n B	ra	nd	Date/Time:	123 1703	5	Received	by:					Date	e/Time
Relinquished by:				Date/Time:			Received	by:					Date	e/Time

EMSL ANALYTICAL, INC.

Page 7 OF 7

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

LIVIOL MININGER, III. 200 Rt. 130 N

Cinnaminson, NJ 08077

_																				NE: (800)		
	Customer ID:								- 4	Billing ID	5	ame	10	1 (cust.	mo	ri	0 K	EN	IAIL: EnvC	hemistry	2@EMSL.com
tion	Company Name:	CV	0+		2-01-1	20-			_	Company	Name:	., .		13	Coust	77 4						
Customer Information	Contact Name: Te A			ens	phonoculta	77119	5		Information	Billing Co	ntact:		9	-						7		
Infe	Street Address: 1300				1- b C b	Cid	ite 300		form	Street Ad	dress:							-		1		
mer	City, State, Zip:	50	out	n ru	nt st	SW	0 1		n B	City, State	7in											
sto	Phone:				-8203		Country: USA		= 1		, Zip.									Cour	itry:	
S	Empil(a) for Donate									Phone:												
_	54	hr	en	5 @ 0	yeosynt	ec.	an			Email(s) f	or Invoid	:e:										
Proj Nan	ne/No: NCS U	P	++												P	urcha	ase Orde	er:			12	
	SL LIMS Project ID: plicable, EMSL will provide)								US S	tate wher		<i>b</i> 1		State o	f Connecticu	ut (CT) must s	select	oroject loc	ation:	-	
			_							oles collec	ted:	NC			Comn	nercia	al (Taxa	ble)	R	esidential (Non-Ta	xable)
	apples for appliance?		No		If Yes, for NPDES?	Ye	s No	Other (Spec						PWS ID:						State Rep	orting F	Required?
Sam	nples Collected by (Check One	١٠.		TEMSL	CLIE		Samples Received (le(s) Tempe	oratio	ro Unor		20.00	Yes	9	No
	pled By Name:	·/·		LIVIOL	Sampled					Y	es 	No	0		eceipt (LA							
	nna Brand IM	ar	e v	vebb		W		1		1	2011	1	1/1	111						No. of Samp n Shipment:		2 4 1 1
	n-Around-Time (TAT)				Around-Time:	X	2 Weeks	The follo	owing to co	TAT's are	subject t	o Lab appr	oval.	T	1 Week	Т	4 Day	s	3 Days	2 D	avs	1 Day
					Mati	ix	Preservative						in tes	t belov	w, then che	ck or					,	
	Client Sample ID	Comp	Grab	Date / Collect	3-3011	ge	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	Test 1: EPA @ 062A	Method 3540C		Test 3:	Test 4:	i i	0.00	Test 6:	Test 7:		Test 8:		Co	mmen	ts
W-	065-41004-12212023		X	12/2/12	3 1430	0	None	X	1		П		7							0×100	min	i ne
M-	066 P(003-1242023		X	1	1435	1	1	X								+		+		0 / (00	,	ipo
W-	067-116-12212023		X		1445			X					1					+			-	
W-	068-100-12212023		X	1	1450	1		文		H			+			+		++	-		1	
2	1			Specia	al Instructions and	d/or Re	gulatory Requirement	s (Sam	ple S	pecification	ons, Prod	cessing M	ethods	s, Limits	of Detection	n, etc	:.)				•	to contract to the
	Reporting Requiremen	ts:			Results Only		Results and QC		Г	Reduce	d Delive	rables		Н	zresults EDI	D		Exc	al	Othe	r /Desc	ribe Above)
/leth	od of Shipment:	7							S	ample Co	ndition l	Jpon Rece	eipt:									ibe / ibeve)
Relin	quished by: Ma An	ar	d		Date/Time	121	121/23 17	:00	R	eceived b	y:	www.cess.c							Date/Tim	е		
	quished by:				Date/Time					eceived b	y:								Date/Tim	е		
ontrol	lled Document - COC-07 Chemistry R1	1 02/26	/2021	Пас	REE TO ELECTRONI	CEICNA	TIDE /Dy shocking Lagran															

Appendix B1 Example Photos of Duct Patchwork

Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 1

Date: 3/8/2024

Location: 402S

Comments: Hot Supply Duct Textile Backing Before Repair



Photograph ID: 2

Date: 3/8/2024

Location: 402S

Comments: Hot Supply Duct Textile Backing After Repair



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 3

Date: 3/8/2024

Direction: 634A

Comments: Mixed Supply Duct Textile Backing Before Repair



Photograph ID: 4

Date: 3/8/2024

Direction: 634A

Comments: Mixed Supply Duct Textile Backing After Repair



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 5

Date: 3/8/2024

Direction: 640C

Comments: Cold Supply Duct

Exterior Before Repair



Photograph ID: 6

Date: 3/8/2024

Direction: 640C

Comments: Cold Supply Duct

Exterior After Repair



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 7

Date: 3/8/2024

Location: 607

Comments: Cold Supply Duct

Exterior Before Repair



Photograph ID: 8

Date: 3/8/2024

Direction: 607

Comments: Cold Supply Duct

Exterior After Repair



Appendix B2 Example Photos of Visual Inspection

Geosyntec consultants

Client: NCSU c/o KTS Project Number: GN10263

Site Name: NCSU PH Site Location: 2310 Katharine Stinson Dr, Raleigh, NC

Photograph ID: 1

Date: 3/6/2024

Location: 325

HVAC Circulation Zone: 3

Inspected: Cold Supply Duct



Photograph ID: 2

Date: 3/6/2024

Location: 602M

HVAC Circulation Zone: 4

Inspected: Cold Supply Duct



	Geosyntec Consultants Photographic Record	Geosyntec consultants
Client: North Carolina State University	Project Number: GN10263	
Site Name: NCSU PH	Site Location: Raleigh, North Carolina	

Photograph ID: 3

Date: 3/7/2024

Location: 213

HVAC Circulation Zone: 1

Inspected: Cold Supply Duct



Photograph ID: 4

Date: 3/7/2024

Location: 106

HVAC Circulation Zone: 2

Inspected: Cold Supply Duct



	Geosyntec Consultants Photographic Record	Geosyntec consultants
Client: North Carolina State University	Project Number: GN10263	
Site Name: NCSU PH	Site Location: Raleigh, North Carolina	

Photograph ID: 5

Date: 3/5/2024

Location: 309

HVAC Circulation Zone: 4

Inspected: Hot Supply Duct



Photograph ID: 6

Date: 3/6/2024

Location: 630

HVAC Circulation Zone: 3

Inspected: Hot Supply Duct



	Geosyntec Consultants Photographic Record	Geosyntec consultants
Client: North Carolina State University	Project Number: GN10263	
Site Name: NCSU PH	Site Location: Raleigh, North Carol	lina
Photograph ID: 7		
Date: 3/7/2024		
Location: 122		
HVAC Circulation Zone: 1		
Inspected: Hot Supply Duct		
Photograph ID: 8 Date: 3/7/2024		
Direction: 106		
HVAC Circulation Zone: 2		
Inspected: Hot Supply Duct		

Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 9

Date: 3/6/2024

Location: 634a

HVAC Circulation Zone: 3

Inspected: Mixed Air Duct



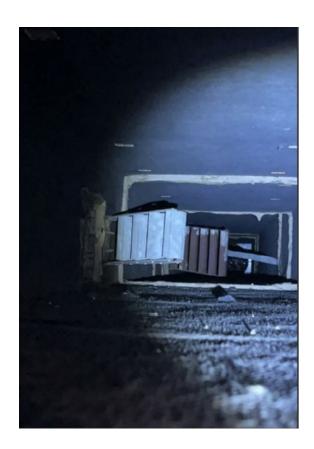
Photograph ID: 10

Date: 3/5/2024

Location: 326

HVAC Circulation Zone: 3

Inspected: Mixed Air Duct



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 11

Date: 3/6/2024

Location: 638

HVAC Circulation Zone: 3

Inspected: Mixed Air Duct



Photograph ID: 12

Date: 3/5/2024

Direction: 326J

HVAC Circulation Zone: 3

Inspected: Mixed Air Duct



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 13

Date: 3/5/2024

Location: 326

HVAC Circulation Zone: 3

Inspected: Insulation Adhesive from

Mixed Air Duct



Photograph ID: 14

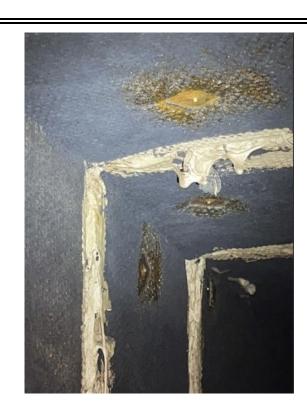
Date: 3/6/2024

Location: 630

HVAC Circulation Zone: 3

Inspected: Insulation Adhesive over

insulation pins



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 15

Date: 3/6/2024

Location: 638

HVAC Circulation Zone: 3

Inspected: Discolored Insulation Facing from Mixed Air Duct



Photograph ID: 16

Date: 3/7/2024

Location: 122

HVAC Circulation Zone: 2

Inspected: Discolored Insulation Facing from Cold Supply Duct





Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 17

Date: 3/7/2024

Location: 106

HVAC Circulation Zone: 1

Inspected: Discolored Insulation Facing from Hot Supply Duct



Photograph ID: 18

Date: 3/5/2024

Location: 309

HVAC Circulation Zone: 4

Inspected: Discolored Insulation Facing from Cold Supply Duct



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 19

Date: 3/5/2024

Location: 310G

HVAC Circulation Zone: 4

Inspected: Discolored Insulation Facing from Cold Supply Duct



Photograph ID: 20

Date: 3/5/2024

Location: 309

HVAC Circulation Zone: 4

Inspected: Tears in Insulation Facing

from Cold Supply Duct



GEOSYNTEC CONSULTANTS Photographic Record Geosyntec consultants

Client: North Carolina State University Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 21

Date: 3/6/2024

Location: 634A

HVAC Circulation Zone: 3

Inspected: Tears in Insulation Facing from Mixed Air Duct



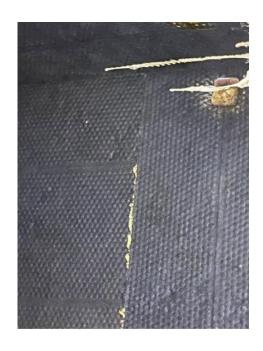
Photograph ID: 22

Date: 3/6/2024

Location: 607

HVAC Circulation Zone: 4

Inspected: Tears in Insulation Facing from Hot Supply Duct



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 23

Date: 3/6/2024

Location: 325

HVAC Circulation Zone: 3

Inspected: Tears in Insulation

Facing from Cold Supply Duct



Photograph ID: 24

Date: 3/5/2024

Location: 309

HVAC Circulation Zone: 4

Inspected: Patches in Insulation Facing from Hot Supply Duct



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 25

Date: 3/6/2024

Location: 636

HVAC Circulation Zone: 3

Inspected: Patches in Insulation Facing from Cold Supply Duct



Photograph ID: 26

Date: 3/6/2024

Location: 635

HVAC Circulation Zone: 3

Inspected: Dents in Insulation Facing from Cold Supply Duct



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 27

Date: 1/4/2024

Location: 100

HVAC Circulation Zone: 1

Inspected: Floor of Air Handler

Unit 1





Photograph ID: 28

Date: 1/4/2024

Location: 510E

HVAC Circulation Zone: 3

Inspected: Mixing Box



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 29

Date: 1/5/2024

Location: 510

HVAC Circulation Zone: 4

Inspected: Return Duct





Photograph ID: 30

Date: 3/8/2024

Location: 100

HVAC Circulation Zone: 1

Inspected: Foamboard Adhesive



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 31

Date: 3/6/2024

Location: 607

HVAC Circulation Zone: 4

Inspected: Gold Insulation Sealant in Hot Supply Duct



Photograph ID: 32

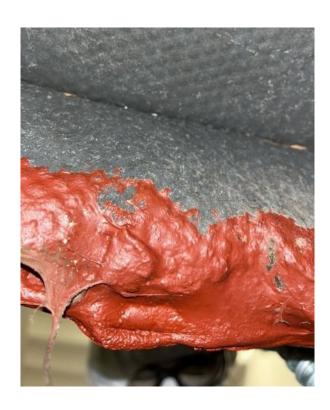
Date: 3/6/2024

Location: 300P

HVAC Circulation Zone: 4

Inspected: Red Insulation Sealant

in Cold Supply Duct



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 33

Date: 3/6/2024

Location: 634A

HVAC Circulation Zone: 3

Inspected: Gold and Red

Insulation Sealant in Mixed Air

Duct



Photograph ID: 34

Date: 3/6/2024

Location: 325

HVAC Circulation Zone: 4

Inspected: Red Insulation Sealant Overlayed on Gold Insulation Sealant in Cold Supply Duct



GEOSYNTEC CONSULTANTS Geosyntec[▶] consultants **Photographic Record Client: North Carolina State Project Number: GN10263** University **Site Name: NCSU PH** Site Location: Raleigh, North Carolina Photograph ID: 35 Date: 3/5/2024 Location: 317C **HVAC Circulation Zone: 3 Inspected: Black Insulation Sealant in Cold Supply Duct** Photograph ID: 36 Date: 1/4/2024 Location: 100 **HVAC Circulation Zone: 1 Inspected: Gray Insulation** Sealant

Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 37

Date: 3/7/2024

Location: 213

HVAC Circulation Zone: 2

Inspected: Red Duct Sealant



Photograph ID: 38

Date: 3/6/2024

Location: 325

HVAC Circulation Zone: 3

Inspected: Red and Gold Overlayed Duct Sealant



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 39

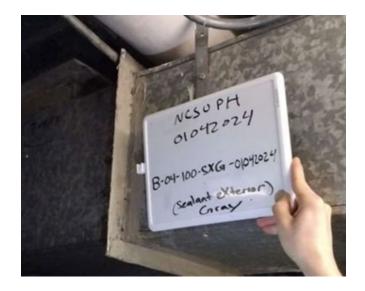
Date: 1/4/2024

Location: 100

HVAC Circulation Zone: 1

Inspected: Gray Exterior Duct

Sealant



Photograph ID: 40

Date: 1/3/2024

Location: 100

HVAC Circulation Zone: 1

Inspected: Yellow Exterior Duct

Sealant



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 41

Date: 3/8/2024

Location: P1004

HVAC Circulation Zone: 4

Inspected: Pleated Return Filter



Photograph ID: 42

Date: 3/8/2024

Location: 100

HVAC Circulation Zone: 1

Inspected: Pocket Filters



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 43

Date: 3/8/2024

Location: 625

HVAC Circulation Zone: 3

Inspected: Pleated Supply Filter



Photograph ID: 44

Date: 3/8/2024

Location: 608M

HVAC Circulation Zone: 4

Inspected: Pleated Supply Filter



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 45

Date: 3/8/2024

Location: 310G

HVAC Circulation Zone: 4

Inspected: Window Caulk



Photograph ID: 46

Date: 3/8/2024

Location: 300M

HVAC Circulation Zone: 4

Inspected: Window Caulk



Appendix B3 Example Photos of Bulk Samples

Geosyntec consultants

Client: NCSU c/o KTS Project Number: GN10263

Site Name: NCSU PH Site Location: 2310 Katharine Stinson Dr, Raleigh, NC

Photograph ID: 1

Date: 3/8/2024

Location: P1003

Sample ID: B-84-FIL-RD-PER-

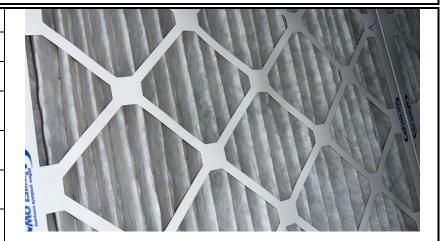
P1003-03082024

HVAC Circulation Zone: From

Air Handling Unit 5

Bulk Material: Pleated Return

Air Filter





Geosyntec consultants

Client: NCSU c/o KTS Project Number: GN10263

Site Name: NCSU PH Site Location: 2310 Katharine Stinson Dr, Raleigh, NC

Photograph ID: 2

Date: 3/8/2024

Location: P1004

Sample ID: B-82-FIL-RD-PER-

P1004-03082024

HVAC Circulation Zone: From

Air Handling Unit 3

Bulk Material: Pleated Return

Air Filter





Geosyntec consultants

Client: NCSU c/o KTS Project Number: GN10263

Site Name: NCSU PH Site Location: 2310 Katharine Stinson Dr, Raleigh, NC

Photograph ID: 3

Date: 3/8/2024

Location: P1003

Sample ID: B-87-FIL-RD-PER-

P1003-03082024

HVAC Circulation Zone: From

Air Handling Unit 6

Bulk Material: Pocket Return Air

Filter





Photograph ID: 4

Date: 3/8/2024

Location: P1004

Sample ID: B-83-FIL-RD-PER-

P1004-03082024

HVAC Circulation Zone: From

Air Handling Unit 3

Bulk Material: Pocket Return Air

Filter





Project Number: GN10263

Geosyntec consultants

Client: North Carolina State

University

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 5

Date: 3/7/2024

Location: 213

Sample ID: B-70-ISEA-CS-213-

03072024

HVAC Circulation Zone: 1

Bulk Material: Insulation Sealant

Comments: Cold Supply Duct





Photograph ID: 6

Date: 3/6/2024

Location: 636

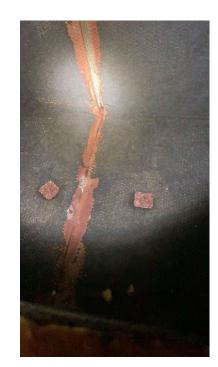
Sample ID: B-33-ISEA-CS-PER-

636-03062024

HVAC Circulation Zone: 3

Bulk Material: Insulation Sealant

Comments: Cold Supply Duct





Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 7

Date: 3/7/2024

Location: 402S

Sample ID: B-58-ISEA-HS-PER-

402S-03072024

HVAC Circulation Zone: 4

Bulk Material: Insulation Sealant

Comments: Hot Supply Duct





Photograph ID: 8

Date: 3/6/2024

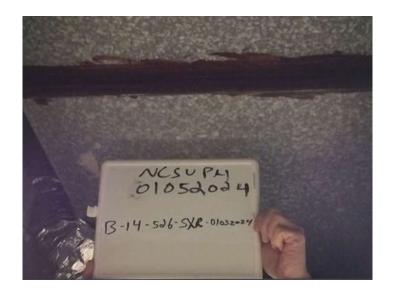
Direction: 635

Sample ID: B-14-526-SXR-

01052024

HVAC Circulation Zone: 4

Bulk Material: Exterior Sealant



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 9

Date: 3/6/2024

Location: 630

Sample ID: B-44-FAC-HS-INT-630-

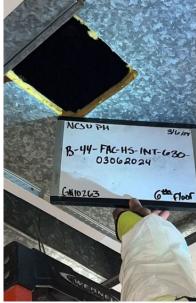
03062024

HVAC Circulation Zone: 3

Bulk Material: Insulation Facing

Comments: Hot Supply Duct





Photograph ID: 10

Date: 3/6/2024

Location: 608D

Sample ID: B-38-FAC-CS-PER-

608D-03062024

HVAC Circulation Zone: 4

Bulk Material: Insulation Facing

Comments: Cold Supply Duct





Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 11

Date: 3/7/2024

Location: 417

Sample ID: B-16-FAC-CS-INT-309-

03052024

HVAC Circulation Zone: 4

Bulk Material: Insulation Facing

Comments: Hot Supply Duct





Photograph ID: 12

Date: 3/6/2024

Location: 325

Sample ID: B-46-FAC-MB-INT-

634A-03062024

HVAC Circulation Zone: 3

Bulk Material: Insulation Facing

Comments: Mixed Air Supply Duct





Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 13

Date: 3/6/2024

Location: 607

Sample ID: B-76-FIL-MB-PER-

625-03082024

HVAC Circulation Zone: 3

Bulk Material: Pleated Supply

Filter





Photograph ID: 14

Date: 3/8/2024

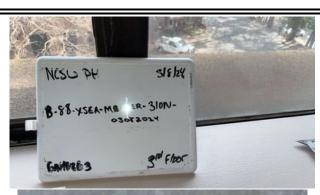
Location: 310N

Sample ID: B-88-XSEA-MB-

PER-310N-03082024

HVAC Circulation Zone: 4

Bulk Material: Window Caulk





Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 15

Date: 3/8/2024

Location: 100

Sample ID: B-78-XSEA-RD-PER-100-

03082024

HVAC Circulation Zone: 1

Bulk Material: Foamboard Construction Adhesive





Photograph ID: 16

Date: 1/4/2024

Location: 100

Sample ID: B-01-INS-01042024

HVAC Circulation Zone: From Air

Handling Unit 1

Bulk Material: Insulation Fibers



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH

Site Location: Raleigh, North Carolina

Photograph ID: 17

Date: 1/5/2024

Location: 510

Sample ID: B-09-510-INS-01052024

HVAC Circulation Zone: 4

Bulk Material: Insulation Fibers



Photograph ID: 18

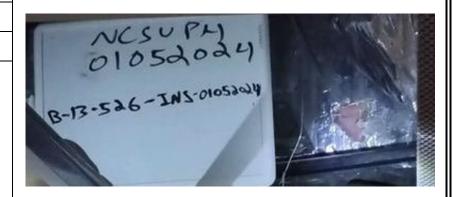
Date: 1/5/2024

Location: 526

Sample ID: B-13-526-INS-01052024

HVAC Circulation Zone: 3

Bulk Material: Insulation Fibers



Geosyntec consultants

Client: North Carolina State

University

Project Number: GN10263

Site Name: NCSU PH Site Location: Raleigh, North Carolina

Photograph ID: 19

Date: 3/8/2024

Location: 326D

Sample ID: B-05-510S-ADH-01052024

HVAC Circulation Zone: 4

Bulk Material: Insulation Adhesive



Appendix C Air Handling Unit (AHU) Restart Checklist and Summary

Poe Hall re-start up of HVAC system 4/16/24-4/27/24

The six main air handling units (AHU's) and two relief fans were started, as well as the Auditorium fan coil (FCU). All building exhaust had remained on. The outside air (OA) and occupancy schedule was set to occupied (OCC) or unoccupied (UNOCC) per Geosyntec's recommendations.

Timeline as follows:

- 4/16/24 at 10:30am: All units started and set to run continuously.
- 4/16/24 at 4:30pm: AHU #6 cut off and would not stay running in "Auto" mode.
- 4/17/24 at 7am: AHU #6 restarted in "Manual" mode.
- 4/17/24 at 2pm: Building Automation System (BAS) module changed out and graphics made visible for all units.
- 4/19/24 at 7am: Units set to normal schedule.
- 4/23/24 at 12pm: Units set to 0% OA.
- 4/23/24 at 11pm: Units set to UNOCC and 0% OA.
- 4/24/24 at 4am: Units set to OCC and 10% OA.
- 4/24/24 at 11pm: Units set to UNOCC and 0% OA.
- 4/25/24 at 4am: Units set to OCC and 10% OA.
- 4/25/24 at 11pm: Units set to UNOCC and 0% OA.
- 4/27/24 at 6pm: Units set to normal schedule OCC 4am -11pm.
- 4/30/24 at 7am: Units set to modified schedule to conserve energy.

At the time of re-start:

- The rooms appeared to be as they were left on November 17th shutdown
- The air handlers were in fair shape considering they are 53 years old.
- All pre-filters will be ready for "Quarterly" change. Last change was on 8/29/23

- There were some signs of some loose interior insulation.
- AHU #1 has a frequency drive issue and is set to 30 Hz or 50% run speed.
- AHU's #3 and #4 and both rooftop relief fans were not visible on BAS graphics but repaired on 4/17/24.
- AHU's #3, #4, #5 and #6 bag filters were not replaced because they are on backorder. Expecting them to arrive soon. Existing filters left in place, since they didn't look bad.

CONFIDENTIAL - ATTORNEY WORK PRODUCT PREPARED AT THE DIRECTION OF COUNSEL AND IN ANTICIPATION OF LITIGATION. DO NOT DISCLOSE TO THIRD PARTIES.

NOTE: Individuals performing restart as set forth below should wear nitrile gloves, Tyvek suits, clear glasses, and N95 mask.

April 16th 2024

STEPS FOR RESTART	<u>NOTES</u>
Turn on the steam; insure steam operating up to AHUs	om
Turn on the chilled water pumps for building	Complete
Verify control valves are working if they have been locked	Complete
Check unit for proper operation prior to maintenance	1 Complete
Turn off power and lockout / tagout unit	1 Complete 1 Locked Out
Visual inspection: make sure nothing is out of the ordinary such as any obstructions of fan blades, equipment damage, etc.	Missing panel was put back on.
Replace missing filters	1 Complete
Replace bag filters that were cut during earlier sampling; preserve removed bag filters (mark storage container so that AHU from which bag filter is removed is clear)	Cut filter placed in black trash bug & Labeled. Missing filter replaced.
 Inspect existing filters for mold or other conditions requiring replacement; assuming replacement not required, re-insert existing filters. If replacement is required, note reason 	NO visable Signs of Wold. Pre filters are ready for a change soon.

CONFIDENTIAL - ATTORNEY WORK PRODUCT PREPARED AT THE DIRECTION OF COUNSEL AND IN ANTICIPATION OF LITIGATION. DO NOT DISCLOSE TO THIRD PARTIES.

	O THIRD PARTIES.
and preserve removed filters (mark storage container so that AHU from which bag filter is removed is clear)	Complete
Lubricate motor and fan bearings, inspect fan and blades	Complete
Check belt(s) for wear, proper tension and alignment (adjust as necessary)	Complete
 Inspect pulleys, and report any deficiencies 	Okay
Visually inspect cooling and heating coils	Complete
 Inspect piping and valves for leaks or deterioration, and operate valves fully open and closed 	Complete
Check operation of damper motor and lubricate (if applicable)	Complete
Inspect drain and condensate pan, clean and chemically treat (as necessary)	Complete
 Turn AHU on by changing VFD from 'Off' to 'Auto' Mode The control system "holds" need to be released (completed from a laptop/remotely) Leave temperature set points as last customized by occupants, rather than setting one global temperature 	Note date and time for each AHU here: 4/16/24 10:40am
Check unit for proper operation after maintenance	Complete

CONFIDENTIAL - ATTORNEY WORK PRODUCT PREPARED AT THE DIRECTION OF COUNSEL AND IN ANTICIPATION OF LITIGATION. DO NOT DISCLOSE TO THIRD PARTIES.

 Run 48-hour normal occupied ventilation 	Set by control Shop to OCCUPIED
 After 48 hours, switch to typical occupied/unoccupied schedule for 7 days During this week, check control system and hydronic systems and check that room temperatures are being maintained 	Note date and time for each AHU here: HHU#1 Set to OCC/UNOCC Schedule.
Run normal occupied ventilation for air sampling by Geosyntec	4/24/24 Set to Specified Schedule per Geosyntech.
• 4/27/24	unit set to normal operation
0 4/30/04	unit schedule ohunged to
	Conserve emergy.

NOTE: Individuals performing restart as set forth below should wear nitrile gloves, Tyvek suits, clear glasses, and N95 mask.

April 16 th 2024 NOTES STEPS FOR RESTART Turn on the steam; insure steam operating up to AHUs M Turn on the chilled water pumps for Complete building Verify control valves are working if Complete they have been locked Check unit for proper operation prior to maintenance Complete Turn off power and lockout / tagout Locked Out Visual inspection: make sure nothing is out of the ordinary such as any Complete obstructions of fan blades, equipment damage, etc. Replace missing filters Complete cut Atter placed in black bag and replaced with Replace bag filters that were cut during earlier sampling; preserve removed bag filters (mark storage container so that AHU from which bag new one. filter is removed is clear) NO Visable Signs of mold. Prefilters ove ready for a change soon Inspect existing filters for mold or other conditions requiring replacement; assuming replacement not required, re-insert existing filters. If replacement is required, note reason

	O THIRD PARTIES.
and preserve removed filters (mark storage container so that AHU from which bag filter is removed is clear)	Complete - filters will be ready for change soon
Lubricate motor and fan bearings, inspect fan and blades	Complete
Check belt(s) for wear, proper tension and alignment (adjust as necessary)	Complete
 Inspect pulleys, and report any deficiencies 	Okay
Visually inspect cooling and heating coils	Complete
 Inspect piping and valves for leaks or deterioration, and operate valves fully open and closed 	Complete
Check operation of damper motor and lubricate (if applicable)	Complete
Inspect drain and condensate pan, clean and chemically treat (as necessary)	Complete
 Turn AHU on by changing VFD from 'Off' to 'Auto' Mode The control system "holds" need to be released (completed from a laptop/remotely) Leave temperature set points as last customized by occupants, rather than setting one global temperature 	Note date and time for each AHU here: 4/16/24 10:45am Unit is running in Hand at 30Hz.
Check unit for proper operation after maintenance	Complete

Run 48-hour normal occupied ventilation	Set by control shop to Occupied
 After 48 hours, switch to typical occupied/unoccupied schedule for 7 days During this week, check control system and hydronic systems and check that room temperatures are being maintained 	Note date and time for each AHU here: Att #2 Set to OCC/UNOCC Schedule.
• Run normal occupied ventilation for air sampling by Geosyntec • $4/30/24$ • $4/30/34$	4/24/24 Set to Specified Schedule per Grosyntech Unit Set to Normal operation unit Schedule changed to conserve energy.
	to conserve energy.

NOTE: Individuals performing restart as set forth below should wear nitrile gloves, Tyvek suits, clear glasses, and N95 mask.

	April 16th 2024
STEPS FOR RESTART	<u>NOTES</u>
Turn on the steam; insure steam operating up to AHUs	on
Turn on the chilled water pumps for building	Complete
Verify control valves are working if they have been locked	Complete
Check unit for proper operation prior to maintenance	Complete
Turn off power and lockout / tagout unit	Locked Out
Visual inspection: make sure nothing is out of the ordinary such as any obstructions of fan blades, equipment damage, etc.	Complete
Replace missing filters	Complete
Replace bag filters that were cut during earlier sampling; preserve removed bag filters (mark storage container so that AHU from which bag filter is removed is clear)	Complete Cut bog filter left in unit until replacement can be found.
Inspect existing filters for mold or other conditions requiring replacement; assuming replacement not required, re-insert existing filters. If replacement is required, note reason	no visable Signs of mold. Pre filters are ready for a change.

	O THIRD PARTIES.
and preserve removed filters (mark storage container so that AHU from which bag filter is removed is clear)	- When ready. Complete Complete
 Lubricate motor and fan bearings, inspect fan and blades 	Complete
Check belt(s) for wear, proper tension and alignment (adjust as necessary)	Complete
 Inspect pulleys, and report any deficiencies 	Oray
Visually inspect cooling and heating coils	Complete
 Inspect piping and valves for leaks or deterioration, and operate valves fully open and closed 	Complete
 Check operation of damper motor and lubricate (if applicable) 	Complete
Inspect drain and condensate pan, clean and chemically treat (as necessary)	Complete
 Turn AHU on by changing VFD from 'Off' to 'Auto' Mode The control system "holds" need to be released (completed from a laptop/remotely) Leave temperature set points as last customized by occupants, rather than setting one global temperature 	Note date and time for each AHU here: 4/16/24 10:00 am
Check unit for proper operation after maintenance	MDP was reset.

Run 48-hour normal occupied ventilation	Set by Control Shop to occupied.
 After 48 hours, switch to typical occupied/unoccupied schedule for 7 days During this week, check control system and hydronic systems and check that room temperatures are being maintained 	Note date and time for each AHU here: AHU#3 Set to OCC/UNOCC Schedule.
Run normal occupied ventilation for air sampling by Geosyntec	4/24/24 Set to Specified Schedule per Geosyntech
0 4/27/24	unit set to Normal operation
0 4/30/24	unit schedule changed
, , ,	to Conserve energy

NOTE: Individuals performing restart as set forth below should wear nitrile gloves, Tyvek suits, clear glasses, and N95 mask.

	April 16 th 2004 NOTES
STEPS FOR RESTART	NOTES
Turn on the steam; insure steam operating up to AHUs	on
Turn on the chilled water pumps for building	Complete
Verify control valves are working if they have been locked	Complete
Check unit for proper operation prior to maintenance	Complete
Turn off power and lockout / tagout unit	Locked out
 Visual inspection: make sure nothing is out of the ordinary such as any obstructions of fan blades, equipment damage, etc. 	Complete
Replace missing filters	Complete
Replace bag filters that were cut during earlier sampling; preserve removed bag filters (mark storage container so that AHU from which bag filter is removed is clear)	Complete Replacement ordered. Will remove and place in Garbage Bag.
 Inspect existing filters for mold or other conditions requiring replacement; assuming replacement not required, re-insert existing filters. If replacement is required, note reason 	No visable Signs of mold. Prefilters are ready for a change Soon.

	O THIRD PARTIES.
and preserve removed filters (mark storage container so that AHU from which bag filter is removed is clear)	Couplete. > when ready
Lubricate motor and fan bearings, inspect fan and blades	Complete
Check belt(s) for wear, proper tension and alignment (adjust as necessary)	Complete
 Inspect pulleys, and report any deficiencies 	Okay
Visually inspect cooling and heating coils	Complete
 Inspect piping and valves for leaks or deterioration, and operate valves fully open and closed 	Complete
Check operation of damper motor and lubricate (if applicable)	Complete
 Inspect drain and condensate pan, clean and chemically treat (as necessary) 	Complete
 Turn AHU on by changing VFD from 'Off' to 'Auto' Mode The control system "holds" need to be released (completed from a laptop/remotely) Leave temperature set points as last customized by occupants, rather than setting one global temperature 	Note date and time for each AHU here: 4/16/24 10:05 am
Check unit for proper operation after maintenance	MDP was reset.

Run 48-hour normal occupied ventilation	Set by Control Shop to occupied.	
 After 48 hours, switch to typical occupied/unoccupied schedule for 7 days During this week, check control system and hydronic systems and check that room temperatures are being maintained 	Note date and time for each AHU here: AHU #4 Set to back/UN Schedule.	OCC
Run normal occupied ventilation for air sampling by Geosyntec 4/27/24	4/24/24 set to Specified Schedule per Geosyntech unit set to Wormal pp	erations
, 4/30/24	Vnit Schedule Changed to Conserve energy.	

NOTE: Individuals performing restart as set forth below should wear nitrile gloves, Tyvek suits, clear glasses, and N95 mask.

	April 16 2024
STEPS FOR RESTART	NOTES
Turn on the steam; insure steam operating up to AHUs	6U
Turn on the chilled water pumps for building	Complete
Verify control valves are working if they have been locked	Complete
Check unit for proper operation prior to maintenance	Complete
Turn off power and lockout / tagout unit	Locked out
Visual inspection: make sure nothing is out of the ordinary such as any obstructions of fan blades, equipment damage, etc.	Complete
Replace missing filters	Complete
Replace bag filters that were cut during earlier sampling; preserve removed bag filters (mark storage container so that AHU from which bag filter is removed is clear)	Complete Replacement ordered, will replace and place in barbage Bag.
Inspect existing filters for mold or other conditions requiring replacement; assuming replacement not required, re-insert existing filters. If replacement is required, note reason	No visable Signs of mold. Pre filters are ready for a change soon.

	O THIRD PARTIES.
and preserve removed filters (mark storage container so that AHU from which bag filter is removed is clear)	Corplete - when ready
Lubricate motor and fan bearings, inspect fan and blades	Complete
Check belt(s) for wear, proper tension and alignment (adjust as necessary)	Complete
Inspect pulleys, and report any deficiencies	Okay
 Visually inspect cooling and heating coils 	Complete
 Inspect piping and valves for leaks or deterioration, and operate valves fully open and closed 	Complete
Check operation of damper motor and lubricate (if applicable)	Complete
Inspect drain and condensate pan, clean and chemically treat (as necessary)	Complete
 Turn AHU on by changing VFD from 'Off' to 'Auto' Mode The control system "holds" need to be released (completed from a laptop/remotely) Leave temperature set points as last customized by occupants, rather than setting one global temperature 	Note date and time for each AHU here: 4 16 24 10 25 am
Check unit for proper operation after maintenance	Complete

 Run 48-hour normal occupied ventilation 	Set by Control Shop to Occupied
After 48 hours, switch to typical occupied/unoccupied schedule for 7 days During this week, check control system and hydronic systems and check that room temperatures are being maintained	Note date and time for each AHU here: AHU#5 Set to OCC/UNOCC Schedule.
Run normal occupied ventilation for air sampling by Geosyntec	4/24/24 Set & Specified Schedule per Geosyntech.
0 4/27/24	Unit set to Normal Operations
• 4/30/24	mit schedule changed
	to conserve emergy.

NOTE: Individuals performing restart as set forth below should wear nitrile gloves, Tyvek suits, clear glasses, and N95 mask.

clear glasses, and 195 mask.	April 16 th 2024
STEPS FOR RESTART	NOTES
Turn on the steam; insure steam operating up to AHUs	on.
Turn on the chilled water pumps for building	Complete
Verify control valves are working if they have been locked	Complete
Check unit for proper operation prior to maintenance	Complete
Turn off power and lockout / tagout unit	Locked out
Visual inspection: make sure nothing is out of the ordinary such as any obstructions of fan blades, equipment damage, etc.	Complete
Replace missing filters	Complete
Replace bag filters that were cut during earlier sampling; preserve removed bag filters (mark storage container so that AHU from which bag filter is removed is clear)	Replacement Ordered, Will replace and place in Garbase Bag.
Inspect existing filters for mold or other conditions requiring replacement; assuming replacement not required, re-insert existing filters. If replacement is required, note reason	NO visable mold. Pre filters are ready for a change boon.

Shetdown at 4:30, Resterted at 7 Am on 4/17

NOT DISCLOSE I	O THIRD PARTIES.
and preserve removed filters (mark storage container so that AHU from which bag filter is removed is clear)	Complete - when ready.
Lubricate motor and fan bearings, inspect fan and blades	Complete
 Check belt(s) for wear, proper tension and alignment (adjust as necessary) 	Complete
 Inspect pulleys, and report any deficiencies 	Okay
Visually inspect cooling and heating coils	Complete
 Inspect piping and valves for leaks or deterioration, and operate valves fully open and closed 	Complete
Check operation of damper motor and lubricate (if applicable)	Complete
Inspect drain and condensate pan, clean and chemically treat (as necessary)	Complete
 Turn AHU on by changing VFD from 'Off' to 'Auto' Mode The control system "holds" need to be released (completed from a laptop/remotely) Leave temperature set points as last customized by occupants, rather than setting one global temperature 	Note date and time for each AHU here: 4 16 24 10 30 am
Check unit for proper operation after maintenance	Complete

Run 48-hour normal occupied ventilation	Set by control Shop to occupied
 After 48 hours, switch to typical occupied/unoccupied schedule for 7 days During this week, check control system and hydronic systems and check that room temperatures are being maintained 	Note date and time for each AHU here: AHV#6 Set to OLC/UN OC Schedule.
Run normal occupied ventilation for air sampling by Geosyntec	4/24/24 Set to Specified Schedule per Geosyntein
• 4/07/24	unit set to normal Operations
6 4/30/24	unit schedule changed
	You Conserve energy.

Appendix D Bulk Sample Lab Report

EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

January 19, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 1/11/2024. The results are tabulated on the attached pages for the following client designated project:

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

NCSUPH (bulk)

The reference number for these samples is EMSL Order #: <u>AC05466</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

Table of Contents

Cover Letter	1
Sample Condition on Receipt	3
Samples in Report	4
Positive Hits Summary	5
Sample Results	8
Quality Assurance Results	28
Certified Analyses	32
Certifications	32
Qualifiers, Definitions and Disclaimer	33
Chain of Custody PDF	34



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Condition on Receipt

Cooler ID: Default Cooler Temperature: 6.1 °C

Custody Seals Y

Containers Intact Y

COC/Labels Agree Y

Preservation Confirmed Y



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 01/11/2024 09:00

Reported: 01/19/2024 17:52

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AC05466-01	B-01-100-INS-01042024	Solid	01/04/2024	01/11/2024
AC05466-02	B-02-100-ADH-01042024	Solid	01/04/2024	01/11/2024
AC05466-03	B-03-100-SEA-01042024	Solid	01/04/2024	01/11/2024
AC05466-04	B-04-100-SXG01042024	Solid	01/04/2024	01/11/2024
AC05466-05	B-05-510S-ADH-01052024	Solid	01/05/2024	01/11/2024
AC05466-06	B-06-510E-ADH-01052024	Solid	01/05/2024	01/11/2024
AC05466-07	B-07-510E-INS-01052024	Solid	01/05/2024	01/11/2024
AC05466-08	DUP-08-510E-INS-01052024	Solid	01/05/2024	01/11/2024
AC05466-09	B-09-510-INS-01052024	Solid	01/05/2024	01/11/2024
AC05466-10	B-10-510-ADH-01052024	Solid	01/05/2024	01/11/2024
AC05466-11	B-11-510-COAT-01052024	Solid	01/05/2024	01/11/2024
AC05466-12	B-12-520E-INS-01052024	Solid	01/05/2024	01/11/2024
AC05466-13	B-13-526-INS-01052024	Solid	01/05/2024	01/11/2024
AC05466-14	B-14-526-SXR-01052024	Solid	01/05/2024	01/11/2024
AC05466-15	B-15-528-FIL-01052024	Solid	01/05/2024	01/11/2024
AC05466-16	B-16-500-FIL-01052024	Solid	01/05/2024	01/11/2024
AC05466-17	B-17-724-FIL-01052024	Solid	01/05/2024	01/11/2024
AC05466-18	B-18-736-FIL-01052024	Solid	01/05/2024	01/11/2024
AC05466-19	B-19-100-FIL-01052024	Solid	01/05/2024	01/11/2024
AC05466-20	B-20-116-FIL-01052024	Solid	01/05/2024	01/11/2024

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

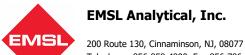
 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Positive Hits Summary

Lab ID	Client ID				Sampled
AC05466-01	B-01-100-INS-01042024				01/04/24 14:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	480	D	mg/kg	01/18/2024 10:27
Lab ID	Client ID				Sampled
AC05466-02	B-02-100-ADH-01042024				01/04/24 14:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1260	2500	D, B	mg/kg	01/17/2024 21:37
Lab ID	Client ID				Sampled
AC05466-03	B-03-100-SEA-01042024				01/04/24 15:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1242	1.9	D	mg/kg	01/17/2024 22:19
SW846-8082A	Aroclor-1262	11	D	mg/kg	01/17/2024 22:19
Lab ID	Client ID				Sampled
AC05466-04	B-04-100-SXG01042024				01/04/24 16:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	19	D	mg/kg	01/17/2024 17:20
Lab ID	Client ID				Sampled
AC05466-05	B-05-510S-ADH-01052024				01/05/24 09:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	260	D	mg/kg	01/17/2024 13:32
Lab ID	Client ID				Sampled
AC05466-06	B-06-510E-ADH-01052024				01/05/24 09:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	770	D	mg/kg	01/17/2024 14:03
Lab ID	Client ID				Sampled
AC05466-07	B-07-510E-INS-01052024				01/05/24 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	0.91		mg/kg	01/18/2024 21:44



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012405466 LIMS Reference ID: AC05466 EMSL Customer ID: GSCH75

Project Name: NCSUPH (bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AC05466-08	DUP-08-510E-INS-01052024				01/05/24 11:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.6		mg/kg	01/18/2024 22:05
Lab ID	Client ID				Sampled
AC05466-09	B-09-510-INS-01052024				01/05/24 11:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	310	D	mg/kg	01/18/2024 14:12
Lab ID	Client ID				Sampled
AC05466-10	B-10-510-ADH-01052024				01/05/24 11:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	53000	D	mg/kg	01/17/2024 21:15
Lab ID	Client ID				Sampled
AC05466-11	B-11-510-COAT-01052024				01/05/24 11:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1300	D	mg/kg	01/17/2024 14:52
Lab ID	Client ID				Sampled
AC05466-12	B-12-520E-INS-01052024				01/05/24 13:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1.3		mg/kg	01/15/2024 14:22
Lab ID	Client ID				Sampled
AC05466-13	B-13-526-INS-01052024				01/05/24 13:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	18	D	mg/kg	01/15/2024 17:43
Lab ID	Client ID				Sampled
AC05466-14	B-14-526-SXR-01052024				01/05/24 13:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	240	D	mg/kg	01/15/2024 18:04



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

LIMS Reference ID: AC05466 EMSL Customer ID: GSCH75

EMSL Order ID: 012405466

Project Name: NCSUPH (bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Positive Hits Summary

(Continued)

Lab ID	Client ID				Sampled
AC05466-15	B-15-528-FIL-01052024				01/05/24 14:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	71	D	mg/kg	01/15/2024 18:25
Lab ID	Client ID				Sampled
AC05466-16	B-16-500-FIL-01052024				01/05/24 14:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	250	D	mg/kg	01/15/2024 18:46
Lab ID	Client ID				Sampled
AC05466-17	B-17-724-FIL-01052024				01/05/24 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	570	D	mg/kg	01/15/2024 19:07
Lab ID	Client ID				Sampled
AC05466-18	B-18-736-FIL-01052024				01/05/24 14:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	400	D	mg/kg	01/15/2024 19:28
Lab ID	Client ID				Sampled
AC05466-19	B-19-100-FIL-01052024				01/05/24 14:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	93	D	mg/kg	01/15/2024 19:50
Lab ID	Client ID				Sampled
AC05466-20	B-20-116-FIL-01052024				01/05/24 15:10
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	54		mg/kg	01/15/2024 20:11



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results

Sample: B-01-100-INS-01042024

AC05466-01 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	480	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	110	mg/kg	01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	120%	S8		10-112		01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	289%	S8		10-123		01/15/24 10:1	2 01/18/24 10:27	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-02-100-ADH-01042024

AC05466-02 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	2500	D, B	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	250	mg/kg	01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		01/15/24 10:12	01/17/24 21:37	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-03-100-SEA-01042024

AC05466-03 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	1.9	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	11	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	5	1.2	mg/kg	01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	38%			10-112		01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	40%			10-123		01/15/24 10:12	01/17/24 22:19	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results
(Continued)

Sample: B-04-100-SXG01042024

AC05466-04 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	19	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	10	2.5	mg/kg	01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	35%			10-112		01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	39%			10-123		01/15/24 10:12	01/17/24 17:20	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-05-510S-ADH-01052024

AC05466-05 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	260	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	22	mg/kg	01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	63%			10-112		01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	89%			10-123		01/15/24 10:12	01/17/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-06-510E-ADH-01052024

AC05466-06 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	770	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	140	mg/kg	01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	118%	S8		10-112		01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	154%	S8		10-123		01/15/24 10:12	01/17/24 14:03	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-07-510E-INS-01052024

AC05466-07 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	0.91		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			10-112		01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	82%			10-123		01/17/24 11:45	01/18/24 21:44	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: DUP-08-510E-INS-01052024

AC05466-08 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	1.6		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.25	mg/kg	01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	27%			10-112		01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	41%			10-123		01/17/24 11:45	01/18/24 22:05	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-09-510-INS-01052024

AC05466-09 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1262	310	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	54	mg/kg	01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	150%	S8		10-112		01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	203%	S8		10-123		01/15/24 10:12	01/18/24 14:12	MxB/AJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-10-510-ADH-01052024

AC05466-10 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	53000	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	5000	4500	mg/kg	01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		01/15/24 10:12	01/17/24 21:15	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-11-510-COAT-01052024

AC05466-11 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	1300	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	200	mg/kg	01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	148%	S8		10-112		01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	202%	S8		10-123		01/15/24 10:12	01/17/24 14:52	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-12-520E-INS-01052024

AC05466-12 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	1.3		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND		1	0.24	mg/kg	01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	73%			10-112		01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	69%			10-123		01/12/24 09:50	01/15/24 14:22	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-13-526-INS-01052024

AC05466-13 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	18	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	4	1.0	mg/kg	01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	71%			10-112		01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	80%			10-123		01/12/24 09:50	01/15/24 17:43	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-14-526-SXR-01052024

AC05466-14 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	240	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	32%			10-112		01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	49%			10-123		01/12/24 09:50	01/15/24 18:04	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-15-528-FIL-01052024

AC05466-15 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	71	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	20	5.0	mg/kg	01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	29%			10-112		01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	64%			10-123		01/12/24 09:50	01/15/24 18:25	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-16-500-FIL-01052024

AC05466-16 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	250	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	50	12	mg/kg	01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	48%			10-112		01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	168%	S8		10-123		01/12/24 09:50	01/15/24 18:46	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-17-724-FIL-01052024

AC05466-17 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	570	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	48	mg/kg	01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	82%			10-112		01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	258%	S8		10-123		01/12/24 09:50	01/15/24 19:07	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-18-736-FIL-01052024

AC05466-18 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	400	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	23	mg/kg	01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			10-112		01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	214%	S8		10-123		01/12/24 09:50	01/15/24 19:28	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-19-100-FIL-01052024

AC05466-19 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	93	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			10-112		01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	133%	S8		10-123		01/12/24 09:50	01/15/24 19:50	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Sample Results (Continued)

Sample: B-20-116-FIL-01052024

AC05466-20 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1262	54	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	20	4.8	mg/kg	01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	85%			10-112		01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	118%			10-123		01/12/24 09:50	01/15/24 20:11	MxB/AxJ	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens Project Name: NCSUPH (bulk)

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com **Customer PO:**

EMSL Sales Rep: Emily Stressman

Received: 01/11/2024 09:00 **Reported:** 01/19/2024 17:52

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0545 - SW846 3540C	,								
Blank (BCA0545-BLK1)			Pr	epared: 1/12	/2024 Analyzed	1: 1/15/202	24		
Aroclor-1016	ND	0.25	mg/kg	e,	,	, _2, _0.			
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		67	10-112		
Surrogate: Decachlorobiphenyl				0.5000		73	10-123		
Blank (BCA0545-BLK2)			Pr	epared: 1/12	/2024 Analyzed	d: 1/16/202	24		
Aroclor-1016	ND	0.25	mg/kg						
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		60	10-112		
Surrogate: Decachlorobiphenyl				0.5000		66	10-123		
LCS (BCA0545-BS1)			Pr	epared: 1/12	/2024 Analyzed	d: 1/15/202	24		
Aroclor-1016	3.45	0.25	mg/kg	5.000		69	23-111		
Aroclor-1260	3.68	0.25	mg/kg	5.000		74	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		69	10-112		
Surrogate: Decachlorobiphenyl				0.5000		<i>72</i>	10-123		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com **Project Name:**

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 01/11/2024 09:00

Reported:

01/19/2024 17:52

Quality Control (Continued)

GC-SVOA (Continued)

Aroclor-1260

Aroclor-1262

Aroclor-1268

Surrogate(s)

Surrogate: Tetrachloro-m-xylene

Surrogate: Decachlorobiphenyl

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Analyte	ivezait Agai	LIIIIL	UIIICS	reagi	IVESUIT	TONEC	LIIIICS	VLD	LIIIIL
Batch: BCA0545 - SW846 3540C	(Continued)								
LCS (BCA0545-BS2)			Pr	repared: 1/12	/2024 Analyz	ed: 1/16/20	24		
Aroclor-1016	2.67	0.25	mg/kg	5.000		53	23-111		
Aroclor-1260	2.81	0.25	mg/kg	5.000		56	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		48	10-112		
Surrogate: Decachlorobiphenyl				0.5000		56	10-123		
Matrix Spike (BCA0545-MS1)	Source:	AC05642-02	Pr	repared: 1/12	/2024 Analyz	red: 1/15/20	24		
Aroclor-1016	3.29	0.24	mg/kg	4.878	ND	67	10-111		
Aroclor-1260	3.36	0.24	mg/kg	4.878	ND	69	10-132		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4878		69	10-112		
Surrogate: Decachlorobiphenyl				0.4878		69	10-123		
Matrix Spike Dup (BCA0545-MSD1)	Source:	AC05642-02	Pr	repared: 1/12	/2024 Analyz	ed: 1/15/20	24		
Aroclor-1016	3.26	0.24	mg/kg	4.854	ND	67	10-111	0.8	28
Aroclor-1260	3.62	0.24	mg/kg	4.854	ND	75	10-132	7	28
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4854		68	10-112		
Surrogate: Decachlorobiphenyl				0.4854		<i>75</i>	10-123		
D-1-L. DC4064E CW04635406									
Batch: BCA0645 - SW846 3540C Blank (BCA0645-BLK1)			Pr	repared: 1/15	/2024 Analvz	red: 1/16/20	24		
Aroclor-1016	ND	0.25	mg/kg	, , ,	/	, .,=			
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
4 1 4260	0.563.5	0.25	J. J						

0.25

0.25

0.25

mg/kg

mg/kg

mg/kg

0.5000

0.5000

74

82

10-112

10-123

0.563B

ND

ND



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

%REC

Limits

RPD

%REC

RPD

Limit

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 01/11/2024 09:00

Spike

Level

Reported: 01/19/2024 17:52

Source

Result

Quality Control (Continued)

Reporting

Limit

Units

Result Qual

GC-SVOA (Continued)

Analyte

Batch: BCA0645 - SW846 3540	C (Continued)						
LCS (BCA0645-BS1)			Pr	epared: 1/15/	2024 Analyz	ed: 1/16/20	24
Aroclor-1016	3.89	0.25	mg/kg	5.000	•	78	23-111
Aroclor-1260	3.77B	0.25	mg/kg	5.000		75	29-119
Surrogate(s)							
Surrogate: Tetrachloro-m-xylene				0.5000		<i>79</i>	10-112
Surrogate: Decachlorobiphenyl				0.5000		81	10-123
Matrix Spike (BCA0645-MSD)	Source: AC0	5466-02	Pr	epared: 1/15/	2024 Analyz	ed: 1/17/20	24
Aroclor-1016	NDR5, D	240	mg/kg	4.762	ND		10-111
Aroclor-1260	2660 R5, D, B	240	mg/kg	4.762	2530	NR	10-132
Surrogate(s)							
Surrogate: Tetrachloro-m-xylene				0.4762		115	10-112
Surrogate: Decachlorobiphenyl				0.4762		NR	10-123
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Aroclor-1262 Aroclor-1268	ND	0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg				
Surrogate(s)							
Surrogate: Tetrachloro-m-xylene				0.5000		<i>71</i>	10-112
Surrogate: Decachlorobiphenyl				0.5000		77	10-123
LCS (BCA0763-BS1)			Pr	epared: 1/17/	2024 Analyz		
Aroclor-1016	3.40	0.25	mg/kg	5.000		68	23-111
Aroclor-1260	3.62	0.25	mg/kg	5.000		72	29-119
Surrogate(s)							
Surrogate: Tetrachloro-m-xylene				0.5000		67	10-112
Surrogate: Decachlorobiphenyl				0.5000		<i>75</i>	<i>10-123</i>



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 01/11/2024 09:00

Reported: 01/19/2024 17:52

Quality Control (Continued)

GC-SVOA (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCA0763 - SW846 3540C	(Continued)								
Matrix Spike (BCA0763-MS1)	-	AC05498-03	Pr	epared: 1/17	/2024 Analyz	ed: 1/18/202	24		
Aroclor-1016	1.08	0.25	mg/kg	4.926	ND	22	10-111		
Aroclor-1260	1.34	0.25	mg/kg	4.926	0.149	24	10-132		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4926		27	10-112		
Surrogate: Decachlorobiphenyl				0.4926		30	10-123		
Matrix Spike Dup (BCA0763-MSD1)	Source:	AC05498-03	Pr	epared: 1/17	/2024 Analyz	ed: 1/18/202	24		
Aroclor-1016	1.65 RO	0.25	mg/kg	5.000	ND	33	10-111	42	28
Aroclor-1260	1.95 RO	0.25	mg/kg	5.000	0.149	36	10-132	37	28
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		38	10-112		
Surrogate: Decachlorobiphenyl				0.5000		41	10-123		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 01/11/2024 09:00 Reported: 01/19/2024 17:52

Certified Analyses included in this Report

CAS #	Certifications
12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP
11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP
11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP
53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP
12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP
11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP
11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP
37324-23-5	NJDEP,NYSDOH,PADEP
37324-23-5	NJDEP,NYSDOH,PADEP
11100-14-4	NJDEP,NYSDOH,PADEP
	12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 37324-23-5 37324-23-5

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2023
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSUPH (bulk)

EMSL Order ID: 012405466 LIMS Reference ID: AC05466

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 01/11/2024 09:00

 Reported:
 01/19/2024 17:52

Notes and Definitions

Item	Definition
В	The analyte was detected in the Method Blank.
D	Analyte was reported from a dilution run.
R5	Recovery is outside of the control limits due to dilution.
RO	RPD for this compound was outside of the control limits.
S8	Surrogate recovery is oustide the control limits due to dilution.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.



Customer Information

Environmental Chemistry - Sampling Event Chain of Custody

200 Route 130 North EMSL Analytical, Inc. Cinnaminson, NJ 08077

EMSL Order Number / Lab Use Only ACOSY (JU)

3-01-100- INS-01042024 3-03-100- ADH-01042024 3-03-100- SEA-01042024 3-01-100- SEA-01042024 Samples for Compliance? Project Name/No: Relinquished by: Samples Collected by (Check One) Relinquished by: Method of Shipment: TESTING LABS · PRODUCTS · TRAINING Turn-Around-Time (TAT) Sampled By Name: EMSL LIMS Project ID: (If applicable, EMSL will provide) Email(s) for Report: JAHSENS @ GEOSYNTEC City, State, Zip: Charlatte Street Address: \ Soo S Contact Name: Je & & Phone: Company Name: Customer ID: Client Sample ID Reporting Requirements: email dient state outs 400 704-227-0850 SUS Marc Marc breosyntec Fedet Yes Webb SON おうつらうい Comp ろうと Standard Turn-Around-Time: No Grab NC 01/04/14 12/20/24 ht 12/10 0 ht 120/10 EMSL Date / Time Consultants Collected Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) 2820 いナ If Yes, for NPDES? Results Only MINSI 5 S=Soil CLIENT A=Air Date/Time: Date/Time 0=Other SL=Sludge W=Water Sampled By Signature: O 0 Matrix 140 Yes 2 HNO3 3 H2SO4 4 ICE 5 Other 300 Country: US 1 HCL 2 Weeks Samples Received Chilled? つくつっ Preservative Describe below in Special Instructions Results and QC No 1530 T Other (Specify) The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: PCB-BUK samples collected: US State where **Billing Information** List Test(s) Needed (Write in test below, then check on sample line:) Test 2: Received by: Sample Condition Upon Receipt: Received by Email(s) for Invoice City, State, Zip: Street Address: **Billing Contact** Company Name Billing ID: Reduced Deliverables Yes Test 3: 2 Test 4: No PWS State of Connecticut (CT) must select project location: Field PH Sample(s) Temperature Upon Receipt (LAB ONLY) 35 ollien Palladini Hzresults EDD 1 Week Field PH Test Time Commercial (Taxable) しいいれいか やし Purchase Order Field Temp. Deg.C 4 Days Excel Field Temp. Test Time Date/Time 3 Days PHONE: (800) 220-3675 EMAIL: EnvChemistry2@EMSL.com please Mold Residential (Non-Taxable) please hold No. of Samples in Shipment: State Reporting Required? Yes Country 2 Days Other (Describe Above) Comments 1050x No 1 Day

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this train of Custody by reference in their entirely. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer FX: 789037153243

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

Controlled Document - COC-80 Chemistry Sampling Event R2 02/26/2021

Page 1 of 2 la, 166

Environmental Chemistry - Sampling Event

Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077 PHONE: (800) 220-3675 EMAIL: EnvChemistry2@EMSL.com

Comments Date/Time Field Temp. Test Time List Test(s) Needed (Write in test below, then check on sample line:) Field Temp. Deg.C AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.) Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Field PH Test Time Field PH Sample Condition Upon Receipt: Test 4: (est 3: Received by Received by [est 5: × Y X Test 1: Describe in Special Instructions 1530 Preservative Rane 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Date/Time: W=Water S=Soil A=Air SL=Sludge O=Other Matrix 0 0 0 0 0 48/50/10 Date / Time Collected top 46/50110 46/50/10 34 46/50/10 46/50/10 16/05/10 AM 46/50/10 1130 SHOI 10011 1150 900 5110 Controlled Document - COC-80 Chemistry Sampling Event R2 02/26/2021 Grab Comp 10 8-80- 3/0E-145-01082020 8-6-5 SON H-01052024 3-8-51-5NS-010520AH 3-10-510- ADM-01052024 232 1-105 510- COAT-0105 20 24 3-55-5010-HON-SO15-50-5 3-09-510+INS-010 B 2024 Client Sample ID Method of Shipment: Relinquished by: Relinquished by

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and analytical and conditions by Customer.



Environmental Chemistry - Sampling Event Chain of Custody

200 Route 130 North EMSL Analytical, Inc. Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMSL Order Number / Lab Use Only ACOSY (a)

526-5xR-01052024 526-INS-01052024 Samples for Compliance? Project Name/No: Relinquished by: Method of Shipment: 18-FIL-01052014 500E-INS-01-52224 Turn-Around-Time (TAT) TESTING LABS - PRODUCTS - TRAINING Relinquished by Sampled By Name Samples Collected by (Check One) (If applicable, EMSL will provide) EMSL LIMS Project ID: **Customer Information** Email(s) for Report: Phone: 704-22 City, State, Zip: Chorles Street Address: Customer ID: Contact Name: Company Name: Client Sample ID Reporting Requirements: Z Marc 1300 No VESSI UAKTERS 270 Yes p Web イナや Comp 5 580-オイってへい Webb Standard Turn-Around-Time: イやつ No ろうと Grab 10/05/04 01/05/04 10/05/04 Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) 2 he 150/10 EMSL Date / Time Collected Consoltan If Yes, for NPDES? 900 Results Only + Date/Time: W=Water S=Soil SL=Sludge A=Air 90 Sampled By Signature: 0=Other CLIENT 0 Matrix W C 13 80 Yes + V 3 H2SO4 Country: US Samples Received Chilled? 2 Weeks HNO3 CE HCL 7000 Other Preservative Describe below in Special Instructions Results and QC 50C No D 0 Test 1: Other (Specify) The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: PCB-BUK samples collected: US State where **Billing Information** List Test(s) Needed (Write in test below, then check on sample line:) Test 2: Street Address Billing Contact: Received by: Sample Condition Upon Receipt Email(s) for Invoice Phone: City, State, Zip: Billing ID: Company Name Received by Reduced Deliverables Yes Test 3 2 Test 4: 5930 No PWS State of Connecticut (CT) must select project location: Field PH Sample(s) Temperature Upon Receipt (LAB ONLY) Hzresults EDD 25 1 Week Field PH Test Commercial (Taxable) to Purchase Order Cardoner Temp. Deg.C 4 Days Excel Field
Temp.
Test
Time 3 Days Date/Time
Date/Time EMAIL: EnvChemistry2@EMSL.com Residential (Non-Taxable) Deuse No. of Samples in Shipment: State Reporting Required? Yes Country 2 Days Other (Describe Above) Comments 101 C N_O 1 Day

Controlled Document - COC-80 Chemistry Sampling Event R2 02/26/2021

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing the Chain of Custody document by electronic signature.)

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing the Chain of Custody document by electronic signature.)

Page 1 of 2

Controlled Document - COC-80 Chemistry Sampling Event R2 02/26/2021



Environmental Chemistry - Sampling Event

Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077 PHONE: (800) 220-3675 EMAIL: EnvChemistry2@EMSL.com

			Matrix	Preservative	List	Test(s) N	leeded (V	Vrite in tes	t below, th	en check	List Test(s) Needed (Write in test below, then check on sample line:)	(ine:)	
Client Sample ID	Comp	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	7. Test 1: 7. J. S 27. J.	S i≥eT	.£ tesT	:þ isəŢ	Field PH	Field PH Test Time	Field Temp. Deg.C	Field Temp. Test Time	Comments
8-16-500-FIL-01052024	×	1420	0	none	×								
3-1-19-134-6-11-01052007		47(50)10	٥		· ×								
3-18-736-FIL-0105AUSH	×	14/1/5	0		\prec								
3-19-100-PIL -0105AUAH	×	14 53	0		\times								
3-4 B16-FIL-01052014		177/2012	0	7	X								
									, ,				
												3	
_	1 (8)	1				Sample C	ondition Up	Sample Condition Upon Receipt:					
Relinquished by:	× 3	7	Date/Time:	1470	_	Received by	by:					Date	Date/Time
)	Time:			Received by:	by:					Date	Date/Time

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

EMSL Customer ID: GSCH75

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

April 02, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 3/12/2024. The results are tabulated on the attached pages for the following client designated project:

NCSU PH (Bulk)

The reference number for these samples is EMSL Order #: AC10255 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

MM S

Owen McKenna Laboratory Manager or other approved signatory

Table of Contents

Cover Letter	1
Sample Condition on Receipt	3
Samples in Report	4
Positive Hits Summary	7
Sample Results	20
Quality Assurance Results	111
Certified Analyses	116
Certifications	116
Qualifiers, Definitions and Disclaimer	117
Chain of Custody PDF	118



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Condition on Receipt

Cooler ID: Default Cooler	Temperature: 0.9 °C
Custody Seals	Υ
Containers Intact	Υ
COC/Labels Agree	Υ
Preservation Confirmed	Υ
T.	

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AC10255-01	B-12-FAC-CS-PER-310G-03052024	Solid	03/05/2024	03/12/2024
AC10255-02	B-11-FAC-CS-PER-317L-03052024	Solid	03/05/2024	03/12/2024
AC10255-03	B-10-ISEA-CS-PER-317L-03052024	Solid	03/05/2024	03/12/2024
AC10255-04	B-9-ISEA-CS-PER-317C-03052024	Solid	03/05/2024	03/12/2024
AC10255-05	B-8-FAC-CS-PER-317C-03052024	Solid	03/05/2024	03/12/2024
AC10255-06	B-7-ISEA-MB-WT-326-03052024	Solid	03/05/2024	03/12/2024
AC10255-07	B-6-FAC-MB-INT-326-03052024	Solid	03/05/2024	03/12/2024
AC10255-08	B-5-ISEA-CS-PER-326H-03052024	Solid	03/05/2024	03/12/2024
AC10255-09	B-4-FAC-CS-PER-326H-03052024	Solid	03/05/2024	03/12/2024
AC10255-10	B-3-ISEA-CS-PER-326H-03052024	Solid	03/05/2024	03/12/2024
AC10255-11	B-2-FAC-MB-WT-326J-03052024	Solid	03/05/2024	03/12/2024
AC10255-12	B-1-ISEA-MB-INT-326J-03052024	Solid	03/05/2024	03/12/2024
AC10255-13	B-24-FAC-HS-INT-325-03062024	Solid	03/06/2024	03/12/2024
AC10255-14	B-23-ISEA-CS-INT-325-03062024	Solid	03/06/2024	03/12/2024
AC10255-15	B-22-FAC-CS-INT-325-03062024	Solid	03/06/2024	03/12/2024
AC10255-16	B-21-ISEA-CS-PER-300P-03062024	Solid	03/06/2024	03/12/2024
AC10255-17	B-20-FAC-CS-PER-300P-03062024	Solid	03/06/2024	03/12/2024
AC10255-18	B-19-ISEA-HS-INT-309-03052024	Solid	03/05/2024	03/12/2024
AC10255-19	B-18-FAC-HS-INT-309-03052024	Solid	03/05/2024	03/12/2024
AC10255-20	B-17-ISEA-CS-INT-309-03052024	Solid	03/05/2024	03/12/2024
AC10255-21	B-16-FAC-CS-INT-309-03052024	Solid	03/05/2024	03/12/2024
AC10255-22	B-15-ISEA-CS-PER-300D-03052024	Solid	03/05/2024	03/12/2024
AC10255-23	B-14-FAC-CS-PER-300D-03052024	Solid	03/05/2024	03/12/2024
AC10255-24	B-13-ISEA-CS-PER-310G-03052024	Solid	03/05/2024	03/12/2024
AC10255-25	B-60-ISEA-HS-PER-502-03072024	Solid	03/07/2024	03/12/2024
AC10255-26	B-59-FAC-HS-PER-502-03072024	Solid	03/07/2024	03/12/2024
AC10255-27	B-58-ISEA-HS-PER-402S-03072024	Solid	03/07/2024	03/12/2024
AC10255-28	B-57-FAC-HS-PER-402S-03072024	Solid	03/07/2024	03/12/2024
AC10255-29	B-56-ISEA-HS-PER-417-03072024	Solid	03/07/2024	03/12/2024
AC10255-30	B-55-FAC-HS-PER-417-03072024	Solid	03/07/2024	03/12/2024
AC10255-31	B-54-ISEA-HS-PER-520B-03072024	Solid	03/07/2024	03/12/2024
AC10255-32	B-53-FAC-HS-PER-520B-03072024	Solid	03/07/2024	03/12/2024
AC10255-33	B-52-ISEA-HS-INT-607-03062024	Solid	03/07/2024	03/12/2024
AC10255-34	B-51-FAC-HS-INT-607-03062024	Solid	03/07/2024	03/12/2024
AC10255-35	B-50-ISEA-CS-INT-607-03062024	Solid	03/07/2024	03/12/2024
AC10255-36	B-49-FAC-CS-INT-607-03062024	Solid	03/07/2024	03/12/2024
AC10255-37	B-72-ISEA-HS-INT-213-03072024	Solid	03/07/2024	03/12/2024
AC10255-38	B-71-FAC-HS-INT-213-03072024	Solid	03/07/2024	03/12/2024
AC10255-39	B-70-ISEA-CS-INT-213-03072024	Solid	03/07/2024	03/12/2024
AC10255-40	B-69-FAC-CS-INT-213-03072024	Solid	03/07/2024	03/12/2024

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted."



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AC10255-41	B-68-ISEA-HS-PER-122-03072024	Solid	03/07/2024	03/12/2024
AC10255-42	B-67-FAC-HS-PER-122-03072024	Solid	03/07/2024	03/12/2024
AC10255-43	B-66-ISEA-CS-PER-122-03072024	Solid	03/07/2024	03/12/2024
AC10255-44	B-65-FAC-CS-PER-122-03072024	Solid	03/07/2024	03/12/2024
AC10255-45	B-64-ISEA-HS-PER-106-03072024	Solid	03/07/2024	03/12/2024
AC10255-46	B-63-FAC-HS-PER-106-03072024	Solid	03/07/2024	03/12/2024
AC10255-47	B-62-ISEA-CS-PER-106-03072024	Solid	03/07/2024	03/12/2024
AC10255-48	B-61-FAC-CS-PER-106-03072024	Solid	03/07/2024	03/12/2024
AC10255-49	B-25-ISEA-HS-INT-365-03062024	Solid	03/06/2024	03/12/2024
AC10255-50	B-26-FAC-HS-PER-31K-03062024	Solid	03/06/2024	03/12/2024
AC10255-51	B-27-ISEA-HS-PER-317C-03062024	Solid	03/06/2024	03/12/2024
AC10255-52	B-28-FAC-CS-PER-640C-03062024	Solid	03/06/2024	03/12/2024
AC10255-53	B-29-ISEA-CS-PER-640C-03062024	Solid	03/06/2024	03/12/2024
AC10255-54	B-30-FAC-CS-PER-635-03062024	Solid	03/06/2024	03/12/2024
AC10255-55	B-31-ISEA-CS-PER-635-03062024	Solid	03/06/2024	03/12/2024
AC10255-56	B-32-FAC-CS-PER-636-03062024	Solid	03/06/2024	03/12/2024
AC10255-57	B-33-ISEA-CS-PER-636-03062024	Solid	03/06/2024	03/12/2024
AC10255-58	B-34-FAL-CS-PER-621F-03062024	Solid	03/06/2024	03/12/2024
AC10255-59	B-35-ISEA-CS-PER-607F-03062024	Solid	03/06/2024	03/12/2024
AC10255-60	B-36-FAC-CS-PER-602M-03062024	Solid	03/06/2024	03/12/2024
AC10255-61	B-37-ISEA-CS-PER-602M-03062024	Solid	03/06/2024	03/12/2024
AC10255-62	B-38-FAC-CS-PER-608D-03062024	Solid	03/06/2024	03/12/2024
AC10255-63	B-39-ISESA-CS-PER-608D-03062024	Solid	03/06/2024	03/12/2024
AC10255-64	B-40-FHC-MB-INT-638-03062024	Solid	03/06/2024	03/12/2024
AC10255-65	B-41-ISEA-MB-INT-638-03062024	Solid	03/06/2024	03/12/2024
AC10255-66	B-42-FAC-CS-INT-630-03062024	Solid	03/06/2024	03/12/2024
AC10255-67	B-43-ISEA-CS-INT-630-03062024	Solid	03/06/2024	03/12/2024
AC10255-68	B-44-FHC-HS-INT-630-03062024	Solid	03/06/2024	03/12/2024
AC10255-69	B-45-ISEA-HS-INT-630-03062024	Solid	03/06/2024	03/12/2024
AC10255-70	B-46-FAC-MB-INT-634A-03062024	Solid	03/06/2024	03/12/2024
AC10255-71	B-47-ISEA-MB-INT-634A-03062024	Solid	03/06/2024	03/12/2024
AC10255-72	B-48-ISEA-MB-INT-634A-03062024	Solid	03/06/2024	03/12/2024
AC10255-73	B-73-FIL-MB-PER-310L-03082024	Solid	03/08/2024	03/12/2024
AC10255-74	B-74-FIL-MB-PER-326D-03082024	Solid	03/08/2024	03/12/2024
AC10255-75	B-75-FIL-MB-PER-608M-03082024	Solid	03/08/2024	03/12/2024
AC10255-76	B-76-FIL-MB-PER-615-03082024	Solid	03/08/2024	03/12/2024
AC10255-77	B-77-FIL-RD-PER-100-03082024	Solid	03/08/2024	03/12/2024
AC10255-78	B-78-XSEA-RD-PER-100-03082024	Solid	03/08/2024	03/12/2024
AC10255-79	B-79-FIL-RD-PER-116-03082024	Solid	03/08/2024	03/12/2024
AC10255-80	B-80-FIL-RD-PER-P1004-03082024	Solid	03/08/2024	03/12/2024



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AC10255-81	B-81-FIL-RD-PER-P1004-03082024	Solid	03/08/2024	03/12/2024
AC10255-82	B-82-FIL-RD-PER-P1004-03082024	Solid	03/08/2024	03/12/2024
AC10255-83	B-83-FIK-RD-PER-P1004-03082024	Solid	03/08/2024	03/12/2024
AC10255-84	B-84-FIL-RD-PER-P1003-03082024	Solid	03/08/2024	03/12/2024
AC10255-85	B-85-FIL-RD-PER-P1003-03082024	Solid	03/08/2024	03/12/2024
AC10255-86	B-86-FIL-RD-PER-P1003-03082024	Solid	03/08/2024	03/12/2024
AC10255-87	B-87-FIL-RD-PER-P1003-03082024	Solid	03/08/2024	03/12/2024
AC10255-88	B-88-XSEA-MB-PER-310N-03082024	Solid	03/08/2024	03/12/2024
AC10255-89	B-89-XSEA-MB-PER-326H-03082024	Solid	03/08/2024	03/12/2024
AC10255-90	B-90-XSEA-MB-PER-310G-03082024	Solid	03/08/2024	03/12/2024
AC10255-91	B-91-XSEA-MB-PER-300M-03082024	Solid	03/08/2024	03/12/2024

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-01	B-12-FAC-CS-PER-310G-03052024				03/05/24 14:41
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1500	D	mg/kg	03/30/2024 16:01
Lab ID	Client ID				Sampled
AC10255-02	B-11-FAC-CS-PER-317L-03052024				03/05/24 12:58
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	800	D	mg/kg	03/30/2024 16:23
Lab ID	Client ID				Sampled
AC10255-03	B-10-ISEA-CS-PER-317L-03052024				03/05/24 14:22
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	220	D	mg/kg	03/30/2024 16:45
Lab ID	Client ID				Sampled
AC10255-04	B-9-ISEA-CS-PER-317C-03052024				03/05/24 11:48
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	510	D	mg/kg	03/30/2024 17:07
Lab ID	Client ID				Sampled
AC10255-05	B-8-FAC-CS-PER-317C-03052024				03/05/24 11:34
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1200	D	mg/kg	03/30/2024 17:29
Lab ID	Client ID				Sampled
AC10255-06	B-7-ISEA-MB-WT-326-03052024				03/05/24 10:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	900	D	mg/kg	03/30/2024 17:52
Lab ID	Client ID				Sampled
AC10255-07	B-6-FAC-MB-INT-326-03052024				03/05/24 09:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	21000	D	mg/kg	04/01/2024 12:31



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Customer ID: GSCH75

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-08	B-5-ISEA-CS-PER-326H-03052024				03/05/24 09:23
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	400	D	mg/kg	03/30/2024 18:35
Lab ID	Client ID				Sampled
AC10255-09	B-4-FAC-CS-PER-326H-03052024				03/05/24 08:59
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	24000	D	mg/kg	03/30/2024 18:58
Lab ID	Client ID				Sampled
AC10255-10	B-3-ISEA-CS-PER-326H-03052024				03/05/24 08:56
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	770	D	mg/kg	03/30/2024 19:20
Lab ID	Client ID				Sampled
AC10255-11	B-2-FAC-MB-WT-326J-03052024				03/05/24 08:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1900	D	mg/kg	03/30/2024 19:42
Lab ID	Client ID				Sampled
AC10255-12	B-1-ISEA-MB-INT-326J-03052024				03/05/24 08:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	980	D	mg/kg	03/30/2024 20:04
Lab ID	Client ID				Sampled
AC10255-13	B-24-FAC-HS-INT-325-03062024				03/06/24 10:38
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	24000	D	mg/kg	03/30/2024 20:26
Lab ID	Client ID				Sampled
AC10255-14	B-23-ISEA-CS-INT-325-03062024				03/06/24 09:50
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	330	D	mg/kg	03/30/2024 20:48



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

EMSL Order ID: 012410255

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-15	B-22-FAC-CS-INT-325-03062024				03/06/24 09:37
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	940	D	mg/kg	03/30/2024 21:10
Lab ID	Client ID				Sampled
AC10255-16	B-21-ISEA-CS-PER-300P-03062024				03/06/24 09:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	11000	D	mg/kg	03/30/2024 21:32
Lab ID	Client ID				Sampled
AC10255-17	B-20-FAC-CS-PER-300P-03062024				03/06/24 09:29
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1800	D	mg/kg	03/29/2024 02:09
Lab ID	Client ID				Sampled
AC10255-18	B-19-ISEA-HS-INT-309-03052024				03/05/24 18:09
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	31000	D	mg/kg	03/29/2024 21:57
Lab ID	Client ID				Sampled
AC10255-19	B-18-FAC-HS-INT-309-03052024				03/05/24 16:42
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	280	D	mg/kg	03/29/2024 02:51
Lab ID	Client ID				Sampled
AC10255-20	B-17-ISEA-CS-INT-309-03052024				03/05/24 16:19
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	27000	D	mg/kg	03/29/2024 19:01
Lab ID	Client ID				Sampled
AC10255-21	B-16-FAC-CS-INT-309-03052024				03/05/24 15:36
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1200	D	mg/kg	03/29/2024 10:55



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-22	B-15-ISEA-CS-PER-300D-03052024				03/05/24 15:27
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	28000	D	mg/kg	03/29/2024 19:23
Lab ID	Client ID				Sampled
AC10255-23	B-14-FAC-CS-PER-300D-03052024				03/05/24 15:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1100	D	mg/kg	03/29/2024 19:45
Lab ID	Client ID				Sampled
AC10255-24	B-13-ISEA-CS-PER-310G-03052024				03/05/24 15:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	25000	D	mg/kg	03/29/2024 20:07
Lab ID	Client ID				Sampled
AC10255-25	B-60-ISEA-HS-PER-502-03072024				03/07/24 11:29
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	20000	D	mg/kg	03/29/2024 20:29
Lab ID	Client ID				Sampled
AC10255-26	B-59-FAC-HS-PER-502-03072024				03/07/24 11:29
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	380	D	mg/kg	03/29/2024 12:49
Lab ID	Client ID				Sampled
AC10255-27	B-58-ISEA-HS-PER-402S-03072024				03/07/24 10:38
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	25000	D	mg/kg	04/01/2024 16:00
Lab ID	Client ID				Sampled
AC10255-28	B-57-FAC-HS-PER-402S-03072024				03/07/24 10:38
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	240	D	mg/kg	03/29/2024 13:33



EMSL-CIN-01

Attention: Jeff Ahrens Proj

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com Project Name: NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-29	B-56-ISEA-HS-PER-417-03072024				03/07/24 09:33
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2000	D	mg/kg	03/29/2024 21:13
Lab ID	Client ID				Sampled
AC10255-30	B-55-FAC-HS-PER-417-03072024				03/07/24 09:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	490	D	mg/kg	03/29/2024 15:07
Lab ID	Client ID				Sampled
AC10255-31	B-54-ISEA-HS-PER-520B-03072024				03/07/24 09:21
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	4200	D	mg/kg	03/29/2024 21:35
Lab ID	Client ID				Sampled
AC10255-32	B-53-FAC-HS-PER-520B-03072024				03/07/24 08:59
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	310	D	mg/kg	03/29/2024 15:51
Lab ID	Client ID				Sampled
AC10255-33	B-52-ISEA-HS-INT-607-03062024				03/07/24 17:54
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	11000	D	mg/kg	03/29/2024 17:57
Lab ID	Client ID				Sampled
AC10255-34	B-51-FAC-HS-INT-607-03062024				03/07/24 17:53
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	290	D	mg/kg	03/29/2024 18:19
Lab ID	Client ID				Sampled
AC10255-35	B-50-ISEA-CS-INT-607-03062024				03/07/24 17:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	48000	D	mg/kg	04/01/2024 12:09



EMSL-CIN-01

jahrens@geosyntec.com

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168 (704) 227-0850 Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-36	B-49-FAC-CS-INT-607-03062024				03/07/24 17:31
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2400	D	mg/kg	03/29/2024 05:16
Lab ID	Client ID				Sampled
AC10255-37	B-72-ISEA-HS-INT-213-03072024				03/07/24 17:25
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	24000	D	mg/kg	03/29/2024 22:19
Lab ID	Client ID				Sampled
AC10255-38	B-71-FAC-HS-INT-213-03072024				03/07/24 17:24
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1100	D	mg/kg	03/29/2024 05:58
Lab ID	Client ID				Sampled
AC10255-39	B-70-ISEA-CS-INT-213-03072024				03/07/24 17:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	18000	D	mg/kg	03/29/2024 22:41
Lab ID	Client ID				Sampled
AC10255-40	B-69-FAC-CS-INT-213-03072024				03/07/24 17:05
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	380	D	mg/kg	03/29/2024 06:40
Lab ID	Client ID				Sampled
AC10255-41	B-68-ISEA-HS-PER-122-03072024				03/07/24 16:31
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2100	D	mg/kg	03/29/2024 07:00
Lab ID	Client ID				Sampled
AC10255-42	B-67-FAC-HS-PER-122-03072024				03/07/24 16:31
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	210	D	mg/kg	03/29/2024 07:22



Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

NCSU PH (Bulk) Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 03/12/2024 09:30 Reported: 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-43	B-66-ISEA-CS-PER-122-03072024				03/07/24 15:54
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	16000	D	mg/kg	03/29/2024 23:03
Lab ID	Client ID				Sampled
AC10255-44	B-65-FAC-CS-PER-122-03072024				03/07/24 15:52
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1200	D	mg/kg	03/29/2024 08:04
Lab ID	Client ID				Sampled
AC10255-45	B-64-ISEA-HS-PER-106-03072024				03/07/24 14:43
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1400	D	mg/kg	03/29/2024 08:25
Lab ID	Client ID				Sampled
AC10255-46	B-63-FAC-HS-PER-106-03072024				03/07/24 14:43
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	82	D	mg/kg	03/29/2024 08:45
Lab ID	Client ID				Sampled
AC10255-47	B-62-ISEA-CS-PER-106-03072024				03/07/24 14:40
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	24000	D	mg/kg	03/29/2024 23:25
Lab ID	Client ID				Sampled
AC10255-48	B-61-FAC-CS-PER-106-03072024				03/07/24 14:09
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1000	D	mg/kg	03/29/2024 09:28
Lab ID	Client ID				Sampled
AC10255-49	B-25-ISEA-HS-INT-365-03062024				03/06/24 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	24000	D	mg/kg	04/02/2024 10:57



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-50	B-26-FAC-HS-PER-31K-03062024				03/06/24 11:19
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	320	D	mg/kg	03/29/2024 10:10
Lab ID	Client ID				Sampled
AC10255-51	B-27-ISEA-HS-PER-317C-03062024				03/06/24 11:38
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2500	D	mg/kg	03/29/2024 10:32
Lab ID	Client ID				Sampled
AC10255-52	B-28-FAC-CS-PER-640C-03062024				03/06/24 14:36
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	820	D	mg/kg	03/29/2024 11:13
Lab ID	Client ID				Sampled
AC10255-53	B-29-ISEA-CS-PER-640C-03062024				03/06/24 15:00
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	18000	D	mg/kg	04/02/2024 11:19
Lab ID	Client ID				Sampled
AC10255-54	B-30-FAC-CS-PER-635-03062024				03/06/24 13:04
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1100	D	mg/kg	03/29/2024 11:55
Lab ID	Client ID				Sampled
AC10255-55	B-31-ISEA-CS-PER-635-03062024				03/06/24 13:17
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	12000	D	mg/kg	03/29/2024 14:32
Lab ID	Client ID				Sampled
AC10255-56	B-32-FAC-CS-PER-636-03062024				03/06/24 13:46
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1100	D	mg/kg	03/30/2024 15:39



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Customer ID: GSCH75

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

Customer PO:

Project Name:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-57	B-33-ISEA-CS-PER-636-03062024				03/06/24 13:57
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	22000	D	mg/kg	03/27/2024 11:27
Lab ID	Client ID				Sampled
AC10255-58	B-34-FAL-CS-PER-621F-03062024				03/06/24 13:59
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	860	D	mg/kg	03/27/2024 18:48
Lab ID	Client ID				Sampled
AC10255-59	B-35-ISEA-CS-PER-607F-03062024				03/06/24 14:17
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	16000	D	mg/kg	03/27/2024 11:48
Lab ID	Client ID				Sampled
AC10255-60	B-36-FAC-CS-PER-602M-03062024				03/06/24 13:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1000	D	mg/kg	03/27/2024 19:09
Lab ID	Client ID				Sampled
AC10255-61	B-37-ISEA-CS-PER-602M-03062024				03/06/24 13:43
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	19000	D	mg/kg	03/27/2024 12:09
Lab ID	Client ID				Sampled
AC10255-62	B-38-FAC-CS-PER-608D-03062024				03/06/24 13:01
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1600	D	mg/kg	03/27/2024 19:39
Lab ID	Client ID				Sampled
AC10255-63	B-39-ISESA-CS-PER-608D-03062024				03/06/24 13:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	23000	D	mg/kg	03/27/2024 12:30



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

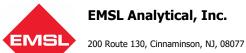
 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-64	B-40-FHC-MB-INT-638-03062024				03/06/24 15:31
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	870	D	mg/kg	03/27/2024 20:00
Lab ID	Client ID				Sampled
AC10255-65	B-41-ISEA-MB-INT-638-03062024				03/06/24 15:36
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	13000	D	mg/kg	03/27/2024 12:51
Lab ID	Client ID				Sampled
AC10255-66	B-42-FAC-CS-INT-630-03062024				03/06/24 16:13
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	1900	D	mg/kg	03/29/2024 03:11
Lab ID	Client ID				Sampled
AC10255-67	B-43-ISEA-CS-INT-630-03062024				03/06/24 16:07
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	6300	D	mg/kg	03/27/2024 13:12
Lab ID	Client ID				Sampled
AC10255-68	B-44-FHC-HS-INT-630-03062024				03/06/24 16:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	200	D	mg/kg	03/27/2024 20:41
Lab ID	Client ID				Sampled
AC10255-69	B-45-ISEA-HS-INT-630-03062024				03/06/24 16:28
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	2000	D	mg/kg	03/27/2024 21:03
Lab ID	Client ID				Sampled
AC10255-70	B-46-FAC-MB-INT-634A-03062024				03/06/24 17:01
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	560	D	mg/kg	03/27/2024 21:24



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-71	B-47-ISEA-MB-INT-634A-03062024				03/06/24 17:03
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	32000	D	mg/kg	03/27/2024 13:32
Lab ID	Client ID				Sampled
AC10255-72	B-48-ISEA-MB-INT-634A-03062024				03/06/24 17:04
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	280	D	mg/kg	03/27/2024 21:45
Lab ID	Client ID				Sampled
AC10255-73	B-73-FIL-MB-PER-310L-03082024				03/08/24 07:58
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	120	D	mg/kg	03/27/2024 13:54
Lab ID	Client ID				Sampled
AC10255-74	B-74-FIL-MB-PER-326D-03082024				03/08/24 08:13
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	50	D	mg/kg	03/27/2024 22:06
Lab ID	Client ID				Sampled
AC10255-75	B-75-FIL-MB-PER-608M-03082024				03/08/24 08:23
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	280	D	mg/kg	03/27/2024 14:14
Lab ID	Client ID				Sampled
AC10255-76	B-76-FIL-MB-PER-615-03082024				03/08/24 08:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	75	D	mg/kg	03/26/2024 03:59
Lab ID	Client ID				Sampled
AC10255-77	B-77-FIL-RD-PER-100-03082024				03/08/24 08:46
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	160	D	mg/kg	03/26/2024 04:20

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-78	B-78-XSEA-RD-PER-100-03082024				03/08/24 08:55
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1242	11	D	mg/kg	03/26/2024 04:41
SW846-8082A	Aroclor-1254	13	D	mg/kg	03/26/2024 04:41
SW846-8082A	Aroclor-1262	7.7	D	mg/kg	03/26/2024 04:41
Lab ID	Client ID				Sampled
AC10255-79	B-79-FIL-RD-PER-116-03082024				03/08/24 09:08
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	150	D	mg/kg	03/26/2024 05:01
Lab ID	Client ID				Sampled
AC10255-80	B-80-FIL-RD-PER-P1004-03082024				03/08/24 09:27
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	88	D	mg/kg	03/26/2024 05:22
Lab ID	Client ID				Sampled
AC10255-81	B-81-FIL-RD-PER-P1004-03082024				03/08/24 09:32
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	140	D	mg/kg	03/26/2024 05:43
Lab ID	Client ID				Sampled
AC10255-82	B-82-FIL-RD-PER-P1004-03082024				03/08/24 09:42
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	25	D	mg/kg	03/26/2024 06:04
Lab ID	Client ID				Sampled
AC10255-83	B-83-FIK-RD-PER-P1004-03082024				03/08/24 09:46
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	120	D	mg/kg	03/26/2024 06:25
Lab ID	Client ID				Sampled
AC10255-84	B-84-FIL-RD-PER-P1003-03082024				03/08/24 09:53
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	21	D	mg/kg	03/26/2024 06:47



EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012410255 LIMS Reference ID: AC10255 EMSL Customer ID: GSCH75

Project Name: NCSU PH (Bulk)

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Positive Hits Summary

Lab ID	Client ID				Sampled
AC10255-85	B-85-FIL-RD-PER-P1003-03082024				03/08/24 10:04
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	340	D	mg/kg	03/26/2024 07:07
Lab ID	Client ID				Sampled
AC10255-86	B-86-FIL-RD-PER-P1003-03082024				03/08/24 10:08
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	11	D	mg/kg	03/26/2024 07:28
Lab ID	Client ID				Sampled
AC10255-87	B-87-FIL-RD-PER-P1003-03082024				03/08/24 10:13
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	110	D	mg/kg	03/26/2024 07:49
Lab ID	Client ID				Sampled
AC10255-88	B-88-XSEA-MB-PER-310N-03082024				03/08/24 17:16
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	92	D	mg/kg	03/26/2024 08:10
Lab ID	Client ID				Sampled
AC10255-89	B-89-XSEA-MB-PER-326H-03082024				03/08/24 11:20
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	46	D	mg/kg	03/26/2024 08:30
Lab ID	Client ID				Sampled
AC10255-90	B-90-XSEA-MB-PER-310G-03082024				03/08/24 12:23
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	83	D	mg/kg	03/26/2024 08:52
Lab ID	Client ID				Sampled
AC10255-91	B-91-XSEA-MB-PER-300M-03082024				03/08/24 12:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
SW846-8082A	Aroclor-1262	190	D	mg/kg	03/26/2024 09:12



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

Sample: B-12-FAC-CS-PER-310G-03052024

AC10255-01 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1500	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/26/24 14:53	03/30/24 16:01	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-11-FAC-CS-PER-317L-03052024

AC10255-02 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepare Date/Tin		Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA											
Aroclor-1016	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	800	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits							
Surrogate: Tetrachloro-m-xylene	79%			10-112		03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	178%	S8		10-123		03/26/24	14:53	03/30/24 16:23	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-10-ISEA-CS-PER-317L-03052024

AC10255-03 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	220	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	50	12	mg/kg	03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	30%			10-112		03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	44%			10-123		03/26/24 14:53	03/30/24 16:45	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman

Received: 03/12/2024 09:30 **Reported:** 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-9-ISEA-CS-PER-317C-03052024

AC10255-04 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	510	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	48	mg/kg	03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	39%			10-112		03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	98%			10-123		03/26/24 14:53	03/30/24 17:07	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-8-FAC-CS-PER-317C-03052024

AC10255-05 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1200	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	400	97	mg/kg	03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	71%			10-112		03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	204%	S8		10-123		03/26/24 14:53	03/30/24 17:29	MxB/TL	SW846 3540C	SW846-8082A



Sample:

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

B-7-ISEA-MB-WT-326-03052024

AC10255-06 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	900	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	83%			10-112		03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	152%	S8		10-123		03/26/24 14:53	03/30/24 17:52	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-6-FAC-MB-INT-326-03052024

AC10255-07 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	21000	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/26/24 14:53	04/01/24 12:31	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 03/12/2024 09:30 Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-5-ISEA-CS-PER-326H-03052024

AC10255-08 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Tim		Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA											
Aroclor-1016	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	400	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	50	mg/kg	03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits							
Surrogate: Tetrachloro-m-xylene	76%			10-112		03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	241%	S8		10-123		03/26/24 1	4:53	03/30/24 18:35	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

Reported:

EMSL Sales Rep: Received: Emily Stressman 03/12/2024 09:30 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-4-FAC-CS-PER-326H-03052024

AC10255-09 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	24000	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/26/24 14:53	03/30/24 18:58	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-3-ISEA-CS-PER-326H-03052024

AC10255-10 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	770	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			10-112		03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	130%	S8		10-123		03/26/24 14:53	03/30/24 19:20	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-2-FAC-MB-WT-326J-03052024

AC10255-11 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1900	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	83%			10-112		03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	196%	S8		10-123		03/26/24 14:53	03/30/24 19:42	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-1-ISEA-MB-INT-326J-03052024

AC10255-12 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	980	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	400	98	mg/kg	03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	91%			10-112		03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	241%	S8		10-123		03/26/24 14:53	03/30/24 20:04	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-24-FAC-HS-INT-325-03062024

AC10255-13 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	24000	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	4220%	S8		10-123		03/26/24 14:53	03/30/24 20:26	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-23-ISEA-CS-INT-325-03062024

AC10255-14 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	330	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	49	mg/kg	03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	58%			10-112		03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	151%	S8		10-123		03/26/24 14:53	03/30/24 20:48	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-22-FAC-CS-INT-325-03062024

AC10255-15 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	940	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	51%			10-112		03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	166%	S8		10-123		03/26/24 14:53	03/30/24 21:10	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-21-ISEA-CS-PER-300P-03062024

AC10255-16 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	11000	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	5000	1200	mg/kg	03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/26/24 14:53	03/30/24 21:32	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-20-FAC-CS-PER-300P-03062024

AC10255-17 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1800	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	400	97	mg/kg	03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	76%			10-112		03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	209%	S8		10-123		03/25/24 09:50	03/29/24 02:09	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-19-ISEA-HS-INT-309-03052024

AC10255-18 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	31000	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	8000	2000	mg/kg	03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 21:57	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-18-FAC-HS-INT-309-03052024

AC10255-19 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	280	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			10-112		03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	125%	S8		10-123		03/25/24 09:50	03/29/24 02:51	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-17-ISEA-CS-INT-309-03052024

AC10255-20 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	27000	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	9000	2200	mg/kg	03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 19:01	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-16-FAC-CS-INT-309-03052024

AC10255-21 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1200	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	300	75	mg/kg	03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	64%			10-112		03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	203%	S8		10-123		03/25/24 09:50	03/29/24 10:55	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-15-ISEA-CS-PER-300D-03052024

AC10255-22 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	28000	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1400	mg/kg	03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 19:23	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-14-FAC-CS-PER-300D-03052024

AC10255-23 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1100	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	80%			10-112		03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	214%	S8		10-123		03/25/24 09:50	03/29/24 19:45	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-13-ISEA-CS-PER-310G-03052024

AC10255-24 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	25000	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 20:07	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-60-ISEA-HS-PER-502-03072024

AC10255-25 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	20000	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 20:29	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-59-FAC-HS-PER-502-03072024

AC10255-26 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	380	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			10-112		03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	137%	S8		10-123		03/25/24 09:50	03/29/24 12:49	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-58-ISEA-HS-PER-402S-03072024

AC10255-27 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	25000	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	04/01/24 16:00	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-57-FAC-HS-PER-402S-03072024

AC10255-28 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	240	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	49	mg/kg	03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	44%			10-112		03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	113%			10-123		03/25/24 09:50	03/29/24 13:33	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-56-ISEA-HS-PER-417-03072024

AC10255-29 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	2000	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	600	150	mg/kg	03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 21:13	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-55-FAC-HS-PER-417-03072024

AC10255-30 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	490	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	300	73	mg/kg	03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	80%			10-112		03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	205%	S8		10-123		03/25/24 09:50	03/29/24 15:07	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-54-ISEA-HS-PER-520B-03072024

AC10255-31 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	4200	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	2000	480	mg/kg	03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 21:35	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-53-FAC-HS-PER-520B-03072024

AC10255-32 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	310	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	300	74	mg/kg	03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	108%			10-112		03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	227%	S8		10-123		03/25/24 09:50	03/29/24 15:51	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-52-ISEA-HS-INT-607-03062024

AC10255-33 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	11000	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	3000	740	mg/kg	03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	03/29/24 17:57	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-51-FAC-HS-INT-607-03062024

AC10255-34 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	290	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	50	mg/kg	03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	92%			10-112		03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	220%	S8		10-123		03/25/24 09:50	03/29/24 18:19	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

Received:

Reported:

EMSL Sales Rep:

Emily Stressman 03/12/2024 09:30 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-50-ISEA-CS-INT-607-03062024

AC10255-35 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	48000	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	15000	3600	mg/kg	03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:50	04/01/24 12:09	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results (Continued)

Sample: B-49-FAC-CS-INT-607-03062024

AC10255-36 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	2400	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 05:16	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-72-ISEA-HS-INT-213-03072024

AC10255-37 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	24000	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 22:19	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-71-FAC-HS-INT-213-03072024

AC10255-38 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1100	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 05:58	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-70-ISEA-CS-INT-213-03072024

AC10255-39 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	18000	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1400	mg/kg	03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 22:41	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-69-FAC-CS-INT-213-03072024

AC10255-40 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	380	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	72%			10-112		03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	167%	S8		10-123		03/25/24 09:49	03/29/24 06:40	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-68-ISEA-HS-PER-122-03072024

AC10255-41 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	2100	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 07:00	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-67-FAC-HS-PER-122-03072024

AC10255-42 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	210	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	90%			10-112		03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	170%	S8		10-123		03/25/24 09:49	03/29/24 07:22	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-66-ISEA-CS-PER-122-03072024

AC10255-43 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	16000	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	4000	980	mg/kg	03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 23:03	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-65-FAC-CS-PER-122-03072024

AC10255-44 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1200	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	240	mg/kg	03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 08:04	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-64-ISEA-HS-PER-106-03072024

AC10255-45 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1400	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 08:25	MxB/TL	SW846 3540C	SW846-8082A



Sample:

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results (Continued)

B-63-FAC-HS-PER-106-03072024

AC10255-46 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	82	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	76%			10-112		03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	124%	S8		10-123		03/25/24 09:49	03/29/24 08:45	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-62-ISEA-CS-PER-106-03072024

AC10255-47 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	24000	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 23:25	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-61-FAC-CS-PER-106-03072024

AC10255-48 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1000	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	74%			10-112		03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	113%			10-123		03/25/24 09:49	03/29/24 09:28	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-25-ISEA-HS-INT-365-03062024

AC10255-49 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	24000	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	04/02/24 10:57	MxB/TL	SW846 3540C	SW846-80824



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-26-FAC-HS-PER-31K-03062024

AC10255-50 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	320	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	49	mg/kg	03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	56%			10-112		03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	128%	S8		10-123		03/25/24 09:49	03/29/24 10:10	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-27-ISEA-HS-PER-317C-03062024

AC10255-51 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	2500	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	250	mg/kg	03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 10:32	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-28-FAC-CS-PER-640C-03062024

AC10255-52 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	820	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	300	74	mg/kg	03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	93%			10-112		03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	120%			10-123		03/25/24 09:49	03/29/24 11:13	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-29-ISEA-CS-PER-640C-03062024

AC10255-53 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	18000	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	04/02/24 11:19	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-30-FAC-CS-PER-635-03062024

AC10255-54 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1100	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	68%			10-112		03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	119%			10-123		03/25/24 09:49	03/29/24 11:55	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-31-ISEA-CS-PER-635-03062024

AC10255-55 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	12000	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	2000	490	mg/kg	03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/25/24 09:49	03/29/24 14:32	MxB/TL	SW846 3540C	SW846-8082A



Sample:

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

B-32-FAC-CS-PER-636-03062024

AC10255-56 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1100	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	92%			10-112		03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	206%	S8		10-123		03/25/24 09:50	03/30/24 15:39	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-33-ISEA-CS-PER-636-03062024

AC10255-57 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	22000	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	8000	1900	mg/kg	03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 11:27	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-34-FAL-CS-PER-621F-03062024

AC10255-58 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Tim		Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA											
Aroclor-1016	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	860	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	1000	240	mg/kg	03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits							
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 1	2:58	03/27/24 18:48	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-35-ISEA-CS-PER-607F-03062024

AC10255-59 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	16000	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	4000	1000	mg/kg	03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 11:48	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-36-FAC-CS-PER-602M-03062024

AC10255-60 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	1000	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 19:09	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-37-ISEA-CS-PER-602M-03062024

AC10255-61 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	19000	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 12:09	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-38-FAC-CS-PER-608D-03062024

AC10255-62 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	1600	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 19:39	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-39-ISESA-CS-PER-608D-03062024

AC10255-63 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	23000	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	6000	1500	mg/kg	03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 12:30	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-40-FHC-MB-INT-638-03062024

AC10255-64 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	870	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 20:00	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-41-ISEA-MB-INT-638-03062024

AC10255-65 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	13000	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	4000	990	mg/kg	03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 12:51	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-42-FAC-CS-INT-630-03062024

AC10255-66 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1262	1900	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	90%			10-112		03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	306%	S8		10-123		03/22/24 12:58	03/29/24 03:11	MxB/TL	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-43-ISEA-CS-INT-630-03062024

AC10255-67 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	6300	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	2000	480	mg/kg	03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 13:12	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-44-FHC-HS-INT-630-03062024

AC10255-68 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	200	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	97%			10-112		03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	153%	S8		10-123		03/22/24 12:58	03/27/24 20:41	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-45-ISEA-HS-INT-630-03062024

AC10255-69 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	2000	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	500	120	mg/kg	03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 21:03	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-46-FAC-MB-INT-634A-03062024

AC10255-70 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	560	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	49	mg/kg	03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	104%			10-112		03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	195%	S8		10-123		03/22/24 12:58	03/27/24 21:24	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

Emily Stressman

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Received: 03/12/2024 09:30 **Reported:** 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-47-ISEA-MB-INT-634A-03062024

AC10255-71 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	32000	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	8000	2000	mg/kg	03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	%	S8		10-112		03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	%	S8		10-123		03/22/24 12:58	03/27/24 13:32	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-48-ISEA-MB-INT-634A-03062024

AC10255-72 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	280	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	41%			10-112		03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	41%			10-123		03/22/24 12:58	03/27/24 21:45	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-73-FIL-MB-PER-310L-03082024

AC10255-73 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	120	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	46%			10-112		03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	118%			10-123		03/22/24 12:58	03/27/24 13:54	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-74-FIL-MB-PER-326D-03082024

AC10255-74 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	50	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	50	12	mg/kg	03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	31%			10-112		03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	62%			10-123		03/22/24 12:58	03/27/24 22:06	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-75-FIL-MB-PER-608M-03082024

AC10255-75 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	280	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	80	20	mg/kg	03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	71%			10-112		03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	183%	S8		10-123		03/22/24 12:58	03/27/24 14:14	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-76-FIL-MB-PER-615-03082024

AC10255-76 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	75	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	50	12	mg/kg	03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	41%			10-112		03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	95%			10-123		03/21/24 12:11	03/26/24 03:59	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results
(Continued)

Sample: B-77-FIL-RD-PER-100-03082024

AC10255-77 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	160	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	65%			10-112		03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	127%	S8		10-123		03/21/24 12:11	03/26/24 04:20	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 03/12/2024 09:30

Reported:

04/02/2024 14:45

Sample Results (Continued)

Sample: B-78-XSEA-RD-PER-100-03082024

AC10255-78 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	11	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	13	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	7.7	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	10	2.5	mg/kg	03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	51%			10-112		03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	72%			10-123		03/21/24 12:11	03/26/24 04:41	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-79-FIL-RD-PER-116-03082024

AC10255-79 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	150	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	62%			10-112		03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenvl	122%			10-123		03/21/24 12:11	03/26/24 05:01	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-80-FIL-RD-PER-P1004-03082024

AC10255-80 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	88	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	25	mg/kg	03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	54%			10-112		03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	123%			10-123		03/21/24 12:11	03/26/24 05:22	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-81-FIL-RD-PER-P1004-03082024

AC10255-81 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	140	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	70%			10-112		03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	103%			10-123		03/21/24 12:11	03/26/24 05:43	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-82-FIL-RD-PER-P1004-03082024

AC10255-82 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	25	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	25	6.0	mg/kg	03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	48%			10-112		03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			10-123		03/21/24 12:11	03/26/24 06:04	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-83-FIK-RD-PER-P1004-03082024

AC10255-83 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	120	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	54%			10-112		03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	142%	S8		10-123		03/21/24 12:11	03/26/24 06:25	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-84-FIL-RD-PER-P1003-03082024

AC10255-84 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	21	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	10	2.4	mg/kg	03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	82%			10-112		03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	93%			10-123		03/21/24 12:11	03/26/24 06:47	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman

Received: 03/12/2024 09:30 **Reported:** 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-85-FIL-RD-PER-P1003-03082024

AC10255-85 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	340	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	200	48	mg/kg	03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	89%			10-112		03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	241%	S8		10-123		03/21/24 12:11	03/26/24 07:07	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-86-FIL-RD-PER-P1003-03082024

AC10255-86 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	11	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	5	1.2	mg/kg	03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	60%			10-112		03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	72%			10-123		03/21/24 12:11	03/26/24 07:28	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

Sample: B-87-FIL-RD-PER-P1003-03082024

AC10255-87 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	110	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	100	24	mg/kg	03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	66%			10-112		03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	84%			10-123		03/21/24 12:11	03/26/24 07:49	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-88-XSEA-MB-PER-310N-03082024

AC10255-88 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	92	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	81%			10-112		03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	108%			10-123		03/21/24 12:11	03/26/24 08:10	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-89-XSEA-MB-PER-326H-03082024

AC10255-89 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	46	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	5	4.8	mg/kg	03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	46%			10-112		03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	53%			10-123		03/21/24 12:11	03/26/24 08:30	MxB/TL1	SW846 3540C	SW846-8082A



Sample:

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Sample Results (Continued)

B-90-XSEA-MB-PER-310G-03082024

AC10255-90 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	83	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	20	20	mg/kg	03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	80%			10-112		03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	87%			10-123		03/21/24 12:11	03/26/24 08:52	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman **Received:** 03/12/2024 09:30

Reported: 04/02/2024 14:45

Sample Results

(Continued)

Sample: B-91-XSEA-MB-PER-300M-03082024

AC10255-91 (Solid)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Prep/Analyst Initials	Prep Method	Analytical Method
GC-SVOA										
Aroclor-1016	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1221	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1232	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1242	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1248	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1254	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1260	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1262	190	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Aroclor-1268	ND	D	50	50	mg/kg	03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate(s)	Recovery	Q		Limits						
Surrogate: Tetrachloro-m-xylene	93%			10-112		03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A
Surrogate: Decachlorobiphenyl	117%			10-123		03/21/24 12:11	03/26/24 09:12	MxB/TL1	SW846 3540C	SW846-8082A



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 03/12/2024 09:30

Reported: 04/02/2024 14:45

Quality Control

GC-SVOA

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC1285 - SW846 3540	<u></u>								
Blank (BCC1285-BLK1)			Pr	epared: 3/21	/2024 Analyze	d: 3/22/202	24		
Aroclor-1016	ND	0.25	mg/kg	•	•	-			
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		61	10-112		
Surrogate: Decachlorobiphenyl				0.5000		90	10-123		
Blank (BCC1285-BLK2)			Pr	epared: 3/21	/2024 Analyze	d: 3/28/202	24		
Aroclor-1016	ND	0.25	mg/kg						
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		43	10-112		
Surrogate: Decachlorobiphenyl				0.5000		60	10-123		
LCS (BCC1285-BS1)			Pr	epared: 3/21	/2024 Analyze	d: 3/22/202	24		
Aroclor-1016	2.47	0.25	mg/kg	5.000		49	23-111		
Aroclor-1260	2.98	0.25	mg/kg	5.000		60	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		54	10-112		
Surrogate: Decachlorobiphenyl				0.5000		<i>78</i>	10-123		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens Project Name:

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com Project Name: NCSU PH (Bulk)

Spike

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Source

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

%REC

RPD

EMSL Customer ID: GSCH75

Quality Control (Continued)

Reporting

Analyte	Result Qual	Limit	Units	Level	Result	%REC	Limits	RPD	Limit
Batch: BCC1285 - SW846 354	OC (Continued)				· · · · · ·		· · · · · ·		
LCS (BCC1285-BS2)			Pr	epared: 3/21	/2024 Analyz	ed: 3/28/202	24		
Aroclor-1016	1.85	0.25	mg/kg	5.000	•	37	23-111		
Aroclor-1260	2.15	0.25	mg/kg	5.000		43	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		38	10-112		
Surrogate: Decachlorobiphenyl				0.5000		51	10-123		
Batch: BCC1390 - SW846 354	IOC								
Blank (BCC1390-BLK1)			Pr	enared: 3/22	/2024 Analyz	ed: 3/26/202	04		
Aroclor-1016	ND	0.25	mg/kg	cpurcu. 3/22	/2021 Andry2	.cu. 3/20/202	- '		
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		41	10-112		
Surrogate: Decachlorobiphenyl				0.5000		53	10-123		
Matrix Spike (BCC1390-MS1)	Source: A	C10255-65	Pr	repared: 3/22	/2024 Analyz	ed: 3/26/202	24		
Aroclor-1016	10.5	0.24	mg/kg	4.854	ND	216	10-111		
Aroclor-1260	2310E	0.24	mg/kg	4.854	ND	NR	10-132		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4854		37	10-112		
Surrogate: Decachlorobiphenyl				0.4854		NR	10-123		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

NCSU PH (Bulk) Attention: Jeff Ahrens **Project Name:**

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

Received:

EMSL Sales Rep:

Emily Stressman 03/12/2024 09:30

Reported:

04/02/2024 14:45

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC1481 - SW846 3540C									
Blank (BCC1481-BLK1)			Pr	enared: 3/25	/2024 Analyz	ed: 3/29/202	94		
Aroclor-1016	ND	0.25	mg/kg	cparca: 5/25	, 2021 7 11 101 17 2	ca. 5/25/202			
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		68	10-112		
Surrogate: Decachlorobiphenyl				0.5000		77	10-123		
LCS (BCC1481-BS1)			Pr	epared: 3/25	/2024 Analyz	ed: 3/29/202	24		
Aroclor-1016	3.77	0.25	mg/kg	5.000		75	23-111		
Aroclor-1260	4.55	0.25	mg/kg	5.000		91	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000			10-112		
Surrogate: Decachlorobiphenyl				0.5000		84	10-123		
Matrix Spike (BCC1481-MS1)	Source:	AC10255-36	Pr	epared: 3/25	/2024 Analyz	ed: 3/29/202	24		
Aroclor-1016	NDR5, D	250	mg/kg	4.975	ND		10-111		
Aroclor-1260	NDR5, D	250	mg/kg	4.975	ND		10-132		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4975			10-112		
Surrogate: Decachlorobiphenyl				0.4975			10-123		
Matrix Spike Dup (BCC1481-MSD1)	Source:	AC10255-36	Pr	epared: 3/25	/2024 Analyz	ed: 3/29/202	24		
Aroclor-1016	NDR5, D	250	mg/kg	5.000	ND		10-111		28
Aroclor-1260	NDR5, D	250	mg/kg	5.000	ND		10-132		28
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000			10-112		
Surrogate: Decachlorobiphenyl				0.5000			10-123		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens **Project Name:**

> Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep:

Emily Stressman Received: 03/12/2024 09:30 Reported: 04/02/2024 14:45

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC1482 - SW846 3540C									
Blank (BCC1482-BLK1)			Pr	epared: 3/25	/2024 Analyz	ed: 3/27/20	24		
Aroclor-1016	ND	0.25	mg/kg	,		-,,			
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		71	10-112		
Surrogate: Decachlorobiphenyl				0.5000		85	10-123		
LCS (BCC1482-BS1)			Pr	epared: 3/25	/2024 Analyz	ed: 3/27/20	24		
Aroclor-1016	4.52 S8	0.25	mg/kg	5.000		90	23-111		
Aroclor-1260	5.35 S8	0.25	mg/kg	5.000		107	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000			10-112		
Surrogate: Decachlorobiphenyl				0.5000		96	10-123		
Matrix Spike (BCC1482-MS1)	Source: A	AC10255-17	Pr	epared: 3/25	/2024 Analyz	ed: 3/29/20	24		
Aroclor-1016	NDR5, D	98	mg/kg	4.902	ND		10-111		
Aroclor-1260	NDR5, D	98	mg/kg	4.902	ND		10-132		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4902		60	10-112		
Surrogate: Decachlorobiphenyl				0.4902		116	10-123		
Matrix Spike Dup (BCC1482-MSD1)	Source: A	AC10255-17	Pr	epared: 3/25	/2024 Analyz	ed: 3/29/20	24		
Aroclor-1016	NDR5, D	100	mg/kg	5.000	ND		10-111		28
Aroclor-1260	NDR5, D	100	mg/kg	5.000	ND		10-132		28
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		56	10-112		
Surrogate: Decachlorobiphenyl				0.5000		162	10-123		



Attention: Jeff Ahrens

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Project Name: NCSU PH (Bulk)

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com **Customer PO:**

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCC1623 - SW846 3540C									
Blank (BCC1623-BLK1)			Pr	epared: 3/26/	/2024 Analvz	red: 3/29/202	24		
Aroclor-1016	ND	0.25	mg/kg	,,	/-	, -, -			
Aroclor-1221	ND	0.25	mg/kg						
Aroclor-1232	ND	0.25	mg/kg						
Aroclor-1242	ND	0.25	mg/kg						
Aroclor-1248	ND	0.25	mg/kg						
Aroclor-1254	ND	0.25	mg/kg						
Aroclor-1260	ND	0.25	mg/kg						
Aroclor-1262	ND	0.25	mg/kg						
Aroclor-1268	ND	0.25	mg/kg						
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		49	10-112		
Surrogate: Decachlorobiphenyl				0.5000		56	10-123		
LCS (BCC1623-BS1)			Pr	epared: 3/26/	/2024 Analyz	red: 3/29/202	24		
Aroclor-1016	2.67	0.25	mg/kg	5.000		53	23-111		
Aroclor-1260	2.93	0.25	mg/kg	5.000		59	29-119		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		50	10-112		
Surrogate: Decachlorobiphenyl				0.5000		59	10-123		
Matrix Spike (BCC1623-MS1)	Source: A	AC10592-05	Pr	epared: 3/26/	/2024 Analyz	red: 3/28/202	24		
Aroclor-1016	3.56	0.25	mg/kg	5.000	ND ,	71	10-111		
Aroclor-1260	4.81	0.25	mg/kg	5.000	ND	96	10-132		
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.5000		62	10-112		
Surrogate: Decachlorobiphenyl				0.5000		75	10-123		
Matrix Spike Dup (BCC1623-MSD1)	Source: A	AC10592-05	Pr	epared: 3/26/	/2024 Analyz	red: 3/28/202	24		
Aroclor-1016	3.05	0.25	mg/kg	4.950	ND	62	10-111	15	28
Aroclor-1260	3.65	0.25	mg/kg	4.950	ND	74	10-132	27	28
Surrogate(s)									
Surrogate: Tetrachloro-m-xylene				0.4950		52	10-112		
Surrogate: Decachlorobiphenyl				0.4950		63	10-123		



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

EMSL Sales Rep: Emily Stressman Received: 03/12/2024 09:30 Reported: 04/02/2024 14:45

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
SW846-8082A in Solid			
Aroclor-1016	12674-11-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1221	11104-28-2	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1232	11141-16-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1242	53469-21-9	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1248	12672-29-6	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1254	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1254 [2C]	11097-69-1	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1260	11096-82-5	NJDEP,NYSDOH,PADEP,California ELAP	
Aroclor-1262	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1262 [2C]	37324-23-5	NJDEP,NYSDOH,PADEP	
Aroclor-1268	11100-14-4	NJDEP,NYSDOH,PADEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2024
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

Project Name:

NCSU PH (Bulk)

EMSL Order ID: 012410255 LIMS Reference ID: AC10255

EMSL Customer ID: GSCH75

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 03/12/2024 09:30

 Reported:
 04/02/2024 14:45

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
Е	Result is beyond calibration range. This value is estimated.
R5	Recovery is outside of the control limits due to dilution.
S8	Surrogate recovery is oustide the control limits due to dilution.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
%REC	Percent Recovery
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL

Environmental Chemistry - Sampling Event Chain of Custody

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

Page 1 of 2

111)			urchase Order:	CUS X	ONE: (800) 220-3675 MAIL: EnvChemistry2@EM
1317272 300 1820 3th USA	Billing ID: Company Name: Billing Contact: Street Address: City, State, Zip: Phone: Email(s) for Invoice:	P		Cust	mer
c. com	Company Name: Billing Contact: Street Address: City, State, Zip: Phone: Email(s) for Invoice:	P			
c. com	Phone: Email(s) for Invoice:		urchase Order:	:	Country:
c. com	Phone: Email(s) for Invoice:		urchase Order:	:	Country:
c. com	Phone: Email(s) for Invoice:		urchase Order:	:	Country:
c. con	Email(s) for Invoice:		urchase Order:	:	
	Email(s) for Invoice:		urchase Order:	:	
			urchase Order:	:	
nus	US State where				
	LIS State where	1			
	samples collected:	State of Connecticu			
Otho		5	nercial (Taxable	e)	Residential (Non-Taxable State Reporting Requ
I IV I INC		ID:			Yes No
IENT Samples Received Chilled	? Yes No		A STATE OF THE PARTY OF THE PAR		
	011-	Receipt (LAI	B ONLY)		No. of Samples
1100	1000	n ka			in Shipment:
		1 Week	4 Days	3 Days	s 2 Days
latrix Preservative	List Test(s) Needed (Write	n test below, then che	ck on sample	line:)	
1 HCL					
3 H2SO4	84. St 2:	Field PH PH	Field Temp.	Field Temp.	Comments
ludge 5 ou	δ. p.	Test Time	Deg.C	Test Time	
her Describe below in					
		1		V 1	
1		1			
1					
and/or Regulatory Requirements (Sar	10 At 10				4.300
		FX 7154966	12623	_	6400
Results and QC	Reduced Deliverables	Hzresults ED	D /	Excel	Other (Describe
	Sample Condition Upon Rece				
ime: 7311 141 14 12/50	Received by:	Colloon Pa	MANIE	Date/T	112/24 9:
	Received by:	www to			
1	Samples Received Chilled ed By Signature: 2 Weeks The fo Call la latrix Preservative 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions Poscil Instructions Results and QC Results and QC	Samples Received Chilled? Yes No ed By Signature: The following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab appro Call lab to confirm TAT before submittal: List Test(s) Needed (Write in the following TAT's are subject to Lab approach to Lab approa	Samples Received Chilled? Yes	Samples Received Chilled? Yes	JENT Samples Received Chilled? Yes No Sample(s) Temperature Upon Receipt (LAB ONLY) A Weeks The following TAT's are subject to Lab approval. The following TAT's are subject to Lab app

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this transfer of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



Environmental Chemistry - Sampling Event Chain of Custody

ACMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

PL.			opodia illa		Regulatory Requiremen	,			9.50		1000			
The state of the state of	m 3			Matrix	Preservative	List	Test(s) N	leeded (V	Vrite in tes	st below, th	en check	on sample	line:)	
Client Sample ID	Comp	Collected	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	PCB Test 1:	1651 2:	Test 3:	Test 4:	Field PH	Field PH Test Time	Field Temp. Deg.C	Field Temp. Test Time	Comments
FAC-65-PER-3176		X	0305782		none	\Box		П	П					
-03-52-24 SEA-MB-W1-326 -03052-24 FAC-MB-W7-326		4	1134		1									
SEA-MB-WT-3+6		1	1000			X	1							
FAC-MB-W4-326	$\overline{\Box}$		6305707	4										
-2052034		X	0950								-67			
-03052024 ISEA-US-PER-3261		1	4305 haze					F		- 31				
-03052024 FAC-CS-PER-326H	Ш		0923				Ш							
FAC-US-PER-326H		1	0302/1090	1		1								
SEA-C5-PER-326H			03052											
	7	1	0856	1 1		1								
-03052624 AC-MB-WT-3265			0836	4										
-03052024		1	03027	1		X								9
SEA-MB-WT-326			0705707	4										
Method of Shipment:	de,	1					Sample C	ondition Up	on Receipt					
Relinquished by:		We	55	Date/Time:	1024 1	300	Received	by:			. 8-		Date/T	
Relinquished by:	1			Date/Time:	2 1 1 2 2		Received	by:	0 = 1				Date/1	Time

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



Environmental Chemistry - Sampling Event Chain of Custody

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

Customes ID:	-				AC.	1025						Taxas a second				EMAIL:	EnvChemistry	2@EMS
Customer ID:					A SAME TO SE	100	3	ing ID:		5	00	e o	5	ده	mer	- 8		
Company Name:	int.	ec	Consu	1tants	/ * > + L/ 1 1	u o	Co	mpany Na	me:								Barry Box	100
Company Name: Classy Contact Name: Seff Street Address: 1300 S City, State, Zip: Charle Phone: 704 - 22	A)	ve.	15			mat	Bill	ing Conta	ct:									
Company Name: Closy Contact Name: Seff Street Address: 300 S City, State, Zip: Charle Phone: 704 - 22 Email(s) for Report: 7	. N	tril	1 5t. Su	1te 30	0	Billing Information	Str	eet Addre	SS:	1/4/2-	-							
City, State, Zip:	244	e	16. 782	03	Country: USA	0	Cit	y, State, Z	ip:				1771				Country:	
Phone: 704 -12	7 -	-08	50	4.	1 1 1 1 1 1 1 1 1	iii	Ph	one:	B s	151								
Email(s) for Report: 5 A	._	-0.	-c Q.	225117	26 (200		En	ail(s) for I	nvoice	e:								
Project	111	(2	4269	essyn	a. Cerr			2000					Pu	rchase Order	r.			_
Name/No: NLSU	24	1 (BUIK)		,										100	ng i		
EMSL LIMS Project ID: (If applicable, EMSL will provide)		,						e where s collected	. ^	VC		State of C		(CT) must se ercial (Taxab			n: ential (Non-Ta	axable
Samples for		l No	If Yes,	for V	es No	Other						PWS				Sta	te Reporting	Requir
Compliance? Yes		No	NPDE	S?		(Specify	"	10.1				ID:	-				Yes	No
Samples Collected by (Check One):		EMSL	CLIENT	Samples Received (Chilled?		Yes		1	Vo.		s) Tempe eipt (LAE	rature Upon ONLY)				
Sampled By Name:	C 1	We	ماط	Sampled By Sig	gnature: M	n	2	11	12				1				f Samples ipment: ム	8
Turn-Around-Time (TAT)	1	Stand	lard Turn-Around	J-Time:	2 Weeks			AT's are su rm TAT bef			oroval.		Week	4 Days	3 Da	iys	2 Days	1
And the second			1	Matrix	Preservative	1.0	List	Test(s) N	leede	ed (Writ	e in te	st below,	then chec	k on sample	e line:)			
	Сотр	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in	CB CB Galk	Test 2:	Test 3:		Test 4:		Field PH	Field PH Test Time	Field Temp. Deg.C	Field Temp. Test Time		Comme	nts
Client Sample ID					Special Instructions	0		1.00								_		
725-1W1-2H	П	V	0306,024	6	Special Instructions	Q X					. 1							
FAC- MS-1NT-325		<u>\</u>	03062024	0	Special Instructions	X												
FAC-MS-INT-325 -03062024 ISEA-CS-INT-325 -03062024 FAC-CS-INT-325		X	1038			X												
FAC-HS-INT-325 -03062024 ISEA-CS-INT-325 -03062024 FAC-CS-INT-325		XXX	036 0306 0950 0306 0306 0306 0306 0306 0306			X												
FAC-MS-INT-325 -03062024 ISEA-CS-INT-325 -03062024 FAC-CS-INT-325		XXX	038 03062024 0950 03062024 0937 03062024 0945			\ \ \	le Sp	ecification	s, Pro	cessing	Method	ds, Limits o	f Detectio	n, etc.)				
FAC-HS-INT-325 -03062024 ISEA-CS-INT-325 -03062024 FAC-CS-INT-325 -03062024 ISEA-CS-PER-3009	nts:	X X X	0758 0761014 0750 03062014 0937 03062014 0945 Special Inst		none	↓ ↓ ↓ ↓ Auts (Samp	le Sp	ecification			Method			_	Excel		Other (De	scribe
FAC-HS-INT-325 -03062024 ISEA-CS-INT-325 -03062024 FAC-CS-INT-325	nts:	X X X X	0758 0761014 0750 03062014 0937 03062014 0945 Special Inst	tructions and/or F	Regulatory Requiremen	↓ ↓ ↓ ↓ Auts (Samp			Delive	erables			f Detectio	_	Excel		Other (De	scribe
FAC- HS-1NT-325 -03062024 ISEA-CS-1NT-325 -03062024 FAC-CS-1NT-325 -03062024 ISEA-CS-PER-3009 -03062024 Reporting Requirement	nts:	X X X	0758 0761014 0750 03062014 0937 03062014 0945 Special Inst	tructions and/or F	Regulatory Requirement		Sa	Reduced	Delive	erables				_		e/Time	Other (De	scribe
FAC-MS-INT-325 -03062024 ISEA-CS-INT-325 -03062024 FAC-CS-INT-325 -03062024 ISEA-CS-PER-300P Reporting Requirement	nts:	× × × × ×	0758 0761014 0750 03062014 0937 03062014 0945 Special Inst	tructions and/or F	Regulatory Requirement	↓ ↓ ↓ ↓ Auts (Samp	Sa	Reduced mple Cond	Delive	erables				_	Date	e/Time	Other (De	scribe



Environmental Chemistry - Sampling Event Chain of Custody

AC 10255

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

				Matrix	Preservative	List	t Test(s) I	Needed (V	Vrite in tes	st below, th	en check	on sample	line:)	
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	PCB BUNK	Test 2:	Test 3:	Test 4:	Field PH	Field PH Test Time	Field Temp. Deg.C	Field Temp. Test Time	Comments
FAC- CS-PER-300P -03062024		(03062024	0	none	K						3		
-03052024		R	1809			X								
-03052024 AC-45-1NT-309 -03052024		K	1642	1		X								.es/
-03052024 EA-CS-WT-309		4	1619			(
-0305 2024 C-CS-INT-309		K	1536	4		λ								
-03052024		X	03057090	'		(
-03052024 (-(5-PER-3000)		 	1527 05052000 1515	1 × X + 1 ×		X								
SEA-CS-PER-310G		X	1500										1	
Method of Shipment:	Se	*	7	VV			Sample 0	Condition Up	on Receipt	:				
Relinquished by:			1.0	Date/Time:	2024/17	-	Received	by:					Date/Ti	me

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMSL ANALYTICAL, INC.	ACIDA	25	5	7, 1					NE: (800) 220-	3675 stry2@EMSL.com
Customer ID:	mer. July Disability		Billing ID:	So	me	0		1520		siryz@EMSL.com
Company Name: Geosyntec Cons Contact Name: Seft Ahrens Street Address: Test	24041	- E	Company Name:		4 10		3	3		
Contact Name: Talf Alaccas	30907012	nformation	Billing Contact:							
Street Address: 3	5 1. 700	form	Street Address:							
City, State, Zip:	Country: () A		City, State, Zip:						Country:	-
Company Name: Geosyntec Constitution Street Address: Jack S. Mint st. City, State, Zip: Charlatte, NC 28 Phone: 704-227-0850	702	Billing	Phone:	Wind and						
Email(s) for Report:			Email(s) for Invoice					-		-
Email(s) for Report: JAhren Sage	-syntec. com					D	urchase Order	**		
Project Name/No: NCSU PH (BUIK							urchase Order			
EMSL LIMS Project ID: (If applicable, EMSL will provide)			State where ples collected:	(State o		t (CT) must s	elect project loc	ation: esidential (Non	-Taxable)
Samples for	or D. Oth				PWS			,	State Reporting	
Compliance? Yes No NPDES		pecify)	4 2.0		ID:			-	Yes	No
Samples Collected by (Check One): EMSL	CLIENT Samples Received Chille	ed?	Yes	No	Control of the section of	le(s) Tempe leceipt (LA	erature Upon		man a se	
Sampled By Name: Marc Webb	Sampled By Signature:	-/	n	73		tootipe (Eri	340		No. of Samples in Shipment:	48
Turn-Around-Time (TAT) Standard Turn-Around-	Time: 2 Works The	followin	ng TAT's are subject to		1.	1 Week	4 Days	3 Days	2 Days	1 Day
	Matrix Preservative	L	ist Test(s) Neede	d (Write in	test belo	w, then che	ck on sample	e line:)	77-32	1 2 50
Client Sample ID	W=Water S=Soil A=Air SL=Sludge D=Other 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe below in Special Instructions	BAK	Test 2:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comm	nents
SEA-HS-PER-50 NO 03072024	O none	1				1 10			\$2°	7 174
6307 2024 1129 FAC-HS-PER-SONO 0307624		7			+					
15EA - HS - PER - 42		X							6-20	
FAC-HS-PER-4015 / 03072-24		X								3. 6.3.
	ctions and/or Regulatory Requirements (S.	ample	Specifications, Proc	cessing Meth	nods, Limi	ts of Detection	on, etc.)	2		7. 1 kg
Reporting Requirements: Result:	s Only Results and QC		Reduced Delive	rables	X	Hzresults ED	D /	Excel	Other (Describe Above)
Method of Shipment: Feder			Sample Condition (Jpon Receip	t:					
Relinquished by: Marc Webb	Date/Time: 3112024 130	×	Received by:					Date/Ti	me	
Relinquished by: Controlled Document - COC-07 Chemistry R11 02/26/2021	Date/Time:		Received by:					Date/Ti	me	yh II

EMISL ...

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

ACIDA55

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

				Matrix	Preservative	List	Test(s) N	leeded (V	Vrite in tes	t below, ti	hen check	on sample	e line:)	or and
Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	PC BIT	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
EA-HS-PER-417		\langle	03012024	0	Done	K								
C-HS-PER-417		4	03072026	1)	K								
-03072024 SEA-HS-PER-569	3	(03072049			4								*
-03072024 FAC-HS-PER-5201		(0859			X								31.54
-6307 2024 SEA-HS-WT-60			0306hex	4		X								7.5
-03062024 -03062024		X	1753	4		X								
63662024			173d	4		X						П		-a 1
-AC-CS-INT-607		K	1731			X						. 5		42.00
Method of Shipment:	de.	1			1		Sample Co	ondition Upo	on Receipt:		100	7 76	1700	
Relinquished by:	_ \	1	hh	Date/Time:	2024 1	300	Received	by:				14.3	Date	Time

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)



EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Crit

Environmental Chemistry - Sampling Event Chain of Custody

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMSL Order Number Lab Use Only EMSL ANALYTICAL, INC. EMAIL: EnvChemistry2@EMSL.com TESTING LABS + PRODUCTS + TRAINING Billing ID: Customer ID: Same as customer Company Name: Greasyntec Consultants Company Name: Information Contact Name: Seff Amens
Street Address: 1300 S. Mint St. Suite 300

City, State, Zip: Charlotty NC 28203 Country: USA

Phone: 104-227-0850

Email(s) for Report: JAhrens@geosyntec.com Billing Contact: Street Address: Billing City, State, Zip: Country Email(s) for Invoice: Purchase Order Project NCSU PH Name/No: State of Connecticut (CT) must select project location: EMSL LIMS Project ID US State where (If applicable, EMSL will provide samples collected: Commercial (Taxable) Residential (Non-Taxable) PWS State Reporting Required? Other If Yes, for Samples for No Yes Yes No (Specify) ID: Yes No Compliance? NPDES? Samples Received Chilled? Sample(s) Temperature Upon CLIENT Yes No **EMSL** Samples Collected by (Check One): Receipt (LAB ONLY) Sampled By Signature: No. of Samples Sampled By Name 48 marc Webb in Shipment The following TAT's are subject to Lab approval 4 Days 3 Days 2 Days 1 Day 2 Weeks Turn-Around-Time (TAT) Standard Turn-Around-Time: Call lab to confirm TAT before submittal: List Test(s) Needed (Write in test below, then check on sample line:) Preservative Matrix 1 HCL W=Water Comp 2 HNO3 Date / Time Field Field Field Comments Client Sample ID S=Soil 3 H2SO4 Field PH PH Temp. Temp. Collected A=Air 4 ICE Deg.C Test Test SL=Sludge Time 5 Other Time O=Other Describe below in Special Instructions 03072024 none 1725 03072024 1724 03072024 1705 0307 2026 1705 Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Results and QC Reporting Requirements: Hzresults EDD Other (Describe Above) Reduced Deliverables Excel Results Only Method of Shipment: Sample Condition Upon Receipt 03112024 1300 Received by Date/Time Relinquished by: Date/Time Relinquished by Date/Time Received by Controlled Document - COC-80 Chemistry Sampling Event R2 02/26/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



Environmental Chemistry - Sampling Event Chain of Custody

ACIDA 55

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

				l en l	Matrix	Preservative	List	Test(s)	leeded (N	/rite in tes	t below, th	en check	on sample	line:)	
	Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	PCB BUNK	Test 2:	Test 3:	Test 4:	Field PH	Field PH Test Time	Field Temp. Deg.C	Field Temp. Test Time	Comments
7007	EA-45-PER-122		X	1631	0	none	X								
	-0307 2024 C-HS-PER-122		X	1631			X								
-ISE	03072024 A-CS-PER-122 07072024		K	1554			(
FAC	-03072024 -05-PER-122		X	1227			K								
-15	03072024 EA-HS-PER-106		K	0301707	4		人								
+	03072024 AC-HS-PER-106		X	1443	4		X								
	-0307 2024 EA-CS-PER-106		(1440	4		X								,
	0307 2024 6-65-PBR-106		I	1409	4		\land								
	Method of Shipment:	de	~		N 18 18	2024 1		Sample	Condition Up	on Receipt					
	Relinquished by:	-	10		Date/Time:	W. The second		Received	by:					D	ate/Time

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Environmental Chemistry Chain of Custody

EMSL Analytical, Inc. 200 Rt. 130 N

EMSL Order Number / Lab Use Only Cinnaminson, NJ 08077 EMSL ANALYTICAL, INC. PHONE: (800) 220-3675 AC10255 EMAIL: EnvChemistry2@EMSL.com Customer ID: Billing ID: Same as customer Information Company Name Company Name Geosynke Consillants Contact Name: Billing Contact Street Address: Street Address Billing City, State, Zip: Country: City, State, Zip. Country Phone: Phone: Email(s) for Report: Email(s) for Invoice: Ahrensgazountec com Purchase Order Project Name/No: EMSL LIMS Project ID US State where State of Connecticut (CT) must select project location: (If applicable, EMSL will provide) samples collected: Commercial (Taxable) Residential (Non-Taxable) State Reporting Required? **PWS** Samples for If Yes, for No Yes No Yes ID: (Specify) Compliance? NPDES? No Samples Received Chilled? Sample(s) Temperature Upon CLIENT Samples Collected by (Check One): **EMSL** Yes No Receipt (LAB ONLY) Sampled By Name: Sampled By Signature No. of Samples 42 in Shipment: anielle The following TAT's are subject to Lab approval. Turn-Around-Time (TAT) 2 Weeks 1 Week 4 Days 3 Days 1 Day Standard Turn-Around-Time 2 Days Call lab to confirm TAT before submittal List Test(s) Needed (Write in test below, then check on sample line:) Matrix Preservative 1 HCL W=Water -BZK Comp 2 HNO3 Date / Time S=Soil Client Sample ID Comments 3 H2SO4 Collected A=Air 4 ICE SL=Sludge PCB. 5 Other O=Other Describe below in Special Instructions B-25-15EH-45-INT-365 B-26-FAC-HS-PER-3/12-63664 X none B-27-DEA-45-PER-3176-6366 2674 X hone 3-78-FAC-CS-PER-640C-03062024 Please Hold the Following sample, will contact for analysis at a later date: 13-88-15EM-MB-PER-310N-0308-2014 B-89-X5EA-MA-PER-3764-0307-2024, B-90-X5EA-MB-PER-3106-03652024, B-91-X5EA-MB-VER-300M-03057024 Reporting Requirements: Reduced Deliverables X Hzresults EDD Results Only Results and QC Excel Other (Describe Above) Sample Condition Upon Receipt Method of Shipment: Relinquished by: Date/Time 03/11/74 Relinquished by:

ASPREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.) reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by

EMSL ...

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

ANIDATE	
H1.111772	
AC10255	

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

			Matrix	Preservative	List	t Test(s) N	Needed (V	Write in tes	st below, t	then chec	k on samp	ole line:)		
Client Sample ID	Grab	Date / Time Collected		W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	PCB-BUIK	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
FA-CS-PER-640C-030C	X	3/6/14	0	none	X									
14-CS-PER-640C-030C 202 10-CS-PER-635-030C	X	3/6/74			X								1	
A-CS-PER-635-0306	χ	3/6/24			X									
H-CS-PER-636-6306	X	3/6/24			X									
H-CS-PER-1636-0366	X	3/6/24			X									
EX-CS-PER-636-0366 2024	X	3/6/24			X									
4-15-PER-607F0806702	∞	3/6/24			R									
				\downarrow	X									
Relinquished by:					08	Sample Co	ondition Upo	on Receipt:						

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)



Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

EMSL Analytical, Inc.

AC10256

						Date / Time Collected	Collected		Matrix	Preservative	Lis	t Test(s) I	Needed (V	Write in te	st below, t	hen checi	k on sampl	e line:)	
	Client Sample ID	Comp	Grab	Collected S= A= SL O=	Collected					1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	PCB-BUIK	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
36-FA	-CS-PER-667M-0306 7024 -CS-PER-662M-0306 7074 -CS-PER-608 -0306 2074		\propto	3/6/24	0	none	K												
37-15EA	-CS-PER-662M-0306		X	3/6/24			X												
38-FAC	-es-PED-608 -0306		X	1301			7												
	-CS-PER-6080-0306		X	3/6/14		*	X												
40-FAC	-MB-INT-638-0306		χ	36/14			7												
41-iseu	-MB-INT-638-03067024		X	3/6/21 1536			Y												
12-FAC	CS-INT-630-03062024		×	3/6/24			K												
_	¥				1	\downarrow	7												
	Method of Shipment:	Y						Sample Co	ondition Upo	on Receipt:									
F	elinquished by: Danvelle	2 1	ley	er	Date/Time: 3/11/2	4 1034		Received I	by:					Date/Time	е				
R	elinquished by:		-		Date/Time:			Received I	oy:					Date/Time	е				

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer,

EMISL ...

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AC10255

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

	я			Special ins	tructions and/or r	Regulatory Requiremer	nts (Sample	e Specificati	ons, Proces	ssing Method	ds, Limits o	of Detection,	, etc.)		
					Matrix	=Water 1 HCL Soil 2 HNO3 Air 3 H2SO4 =Sludge 4 ICE	List	e line:)							
	Client Sample ID	Comp	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other		PCB BUIK	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
UZA-	(S-1NT-630-03062024		X	3/6/24	0	none	X								
FHC-	HS-INT-630-03067629		8	3/6/74)	X								9)
ISEH.	-415-11NT-630-0306702	y	X	3/6/24			X								
FAC	-MB-INT-63414-036626	4	Ø	36/24			X								
ISEA	-MB-INT-634A-6366	24	χ	3/6/24			X								
SEH-	MB-INT-634A-6306		8	3/6/24			X								
-F)4-	-MB-PER-3101-0808		φ	3/4/24			X								
FK.	MB-PER-3260-0308		Y.	3/8/24	\	V	X								
	Method of Shipment:							Sample Co	ondition Upo	n Receipt:					
	Relinquished by: Danielle Man	1-21	/		3/11/24	1034		Received b	y:					Date/Tin	ne
R	Relinquished by:	l			Date/Time:			Received b	y:					Date/Tin	ne

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AC10255

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

	4			Special Ins	tructions and/or F	Regulatory Requiremen	its (Sample	Specification	ons, Proces	sing Method	ds, Limits o	f Detection,	etc.)		
					Matrix	Preservative	List	Test(s) N	leeded (V	Vrite in tes	t below, to	hen check	on sampl	e line:)	
	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	PCB- BUIK	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments		
FIL	-MB-PER-608M-030		K	3/8/24	0	none	X								
FIL	PD-PER-100-0308		χ	3/8/74)	X								
F/L-	RD-PER-100-0308 1024		K	3/8/24			X								
SEA	120-PER-116-0308 2074		X	3/8/24			X								
FIL-	20-PER-11.6-0308		X	3/8/24			×								
FIL-	RD-PER-P1004-530 7024 RD-PER-P1004-036 2024		χ	318/24			X								
14-	PD-PER-17004-030		X	318/24			7								
	D-PEE-17104-03682029		X	318/24		1	>								
	ethod of Shipment:		×				to a	Sample Co	endition Upo	n Receipt:					
Re	Tomitle W	Nev	ev		3/11/24	1034	4	Received b	by:					Date/Tim	е
Re	linquished by:	t			Date/Time:			Received b	by:					Date/Tim	е

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMS EMSL ANALYTICAL, INC.

B-88-XSEA-MB-PER-310N-

13-89-X5EH-MB-PER-326H-

318/24

318/24

1216

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AC10255

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

ON HOLD

ONHOLD

	12-04-X2EH-MB-1	SERVICE NO.		Matrix	Preservative							List Test(s) Needed (Write in test below, then check on sample line:)						
	Client Sample ID	Comp	Grab	Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	Test 1:	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments			
FIC	-120-PER-P1004-0305		∞	3/ 8/24	9	none												
	PO-PER-P1003-67 UY		X	3/8/24														
714-	-RD-PER-P1003-0368		X	19174														
L+	-RD-PER-P1003-0368 7074 RD-PER-P1003-0368 7074 e0-PER-P1013-0348 7074		Ø	318124		-												
11-	eo-PER-P1003-0308		X	3/8/24							П	П	M	П				

13-90- XSEA-MB-PER-3/06- XX /24 1723			ON HOLD
Method of Shipment:	•	Sample Condition Upon Receipt:	
FEDEX			
Relinquished by:	Date/Time:	Received by:	Date/Time
Danielle Meyer	3/11/24 /034		
Relinquished by:		Received by:	Date/Time
Controlled Document - COC-07 Chemistry R11 02/26/2021			

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)



Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AC10255

EMSL Analytical, Inc. 200 Rt. 130 N Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: EnvChemistry2@EMSL.com

			Special Ins	tructions and/or l	Regulatory Requirement	nts (Sample	e Specificati	ions, Proces	ssing Metho	ds, Limits o	of Detection,	etc.)		
<i>y</i>														
				Matrix	Preservative	Lis	t Test(s) I	Needed (I	Write in tes	t below, t	hen check	on sampl	e line:)	
Client Sample ID	Сотр	Grab	Date / Time Collected	W=Water S=Soil A=Air SL=Sludge O=Other	1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other Describe in Special Instructions	Test 1:	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
EM-MB-PER-300M-0706		¥	3/8/14	U	none									an holo
									П			П	ТП	
						П	П	П		П	П			
×														
Method of Shipment:							Sample Co	ondition Upo	on Receipt:					1
Relinquished by: Danyelle Mey	ier			3/11/24	1034		Received b	oy:					Date	/Time
Relinquished by:				Date/Time:			Received t	oy:	10				Date	/Time

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Appendix E1 Air Sample Lab Report 2024

EMSL

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01 EMSL Order ID: 012415354 LIMS Reference ID: AC15354 EMSL Customer ID: GSCH75

May 23, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/30/2024. The results are tabulated on the attached pages for the following client designated project:

NCSUPH

The reference number for these samples is EMSL Order #: <u>AC15354</u> . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

Owen McKenna Laboratory Manager or other approved signatory

MM S

Table of Contents

Cover	1
Case Narrative	4
Certifications	7
Notes And Definitions	8
Documents	9
Fraction (AROCLOR)	13
Sample Data (EPA TO-10A)	14
Sample Results (AC15354-01)	15
Sample Results (AC15354-02)	18
Sample Results (AC15354-03)	21
Sample Results (AC15354-04)	24
Sample Results (AC15354-05)	27
Sample Results (AC15354-06)	30
Sample Results (AC15354-07)	33
Sample Results (AC15354-08)	36
Sample Results (AC15354-09)	39
QC Data Summary (EPA TO-10A)	42
Surrogate Summary (BCD2253)	43
LCS (BCD2253)	44
Blank Summary (BCD2253)	45
Calibration Summary (EPA TO-10A)	47
Calibration (AA40009)	48
Calibration Raw Data (AA40009)	60
CCV Summary (SCA0465)	93
CCV Summary (SCE0475)	96

Table of Contents (continued)

QC Data Summary (EPA TO-10A)	112
QC Summary (BCD2253)	123
Standard Traceability	145



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168 (704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012415354 LIMS Reference ID: AC15354 EMSL Customer ID: GSCH75

Project Number: NCSUPH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 04/30/2024 09:30

 Reported:
 05/23/2024 10:53

Work Order Case Narrative

Project: NCSUPH Workorder: AC15354

This report contains the analytical data for the analysis of 9 samples, and are listed below.

Sample Name	Laboratory ID	Sample Date
A-03-742-042424	AC15354-08	04/25/24 18:57
A-04-714B-042424	AC15354-06	04/25/24 18:52
A-05-608J-042424	AC15354-04	04/25/24 19:00
A-06-635-042424	AC15354-05	04/25/24 19:06
A-07-510E-042424	AC15354-02	04/26/24 19:12
A-08-526-042424	AC15354-03	04/25/24 19:11
A-10-400-042424	AC15354-01	04/25/24 19:12
A-14-ROOF-042424	AC15354-09	04/25/24 18:57
DUP-03-742-042424	AC15354-07	04/25/24 18:57

Sample Receipt

The samples were received 04/30/24 09:30 and in good condition unless listed below. The temperature of the cooler at reception was

<u>Cooler</u> <u>Temp C°</u> Default Cooler 10.0

Report Revision 1

Replaces report from 05/14/2024

Report amended. Reported aroclors have been revised.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012415354 LIMS Reference ID: AC15354 EMSL Customer ID: GSCH75

NCSUPH

Project Number: Customer PO:

EMSL Sales Rep: Emily Stressman Received: 04/30/2024 09:

Received: 04/30/2024 09:30 **Reported:** 05/23/2024 10:53

Analysis Case Narrative

Analysis list:

<u>Sample</u>	Method List
AC15354-01	EPA TO-10A
AC15354-02	EPA TO-10A
AC15354-03	EPA TO-10A
AC15354-04	EPA TO-10A
AC15354-05	EPA TO-10A
AC15354-06	EPA TO-10A
AC15354-07	EPA TO-10A
AC15354-08	EPA TO-10A
AC15354-09	EPA TO-10A

Method Reference

USEPA: Compendium TO-10A, Determination Of Pesticides And Polychlorinated Biphenyls In Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed By Gas Chromatographic/Multi-Detector Detection (GC/MD), January 1999, (EPA/625/R-96/010b).

Holding Times:

All holding times were met.

Sample Dilutions:

Sample ID	<u>Analyzed</u>	<u>Dilution</u>
AC15354-01	No Dilutions	
AC15354-02	No Dilutions	
AC15354-03	No Dilutions	
AC15354-04	No Dilutions	
AC15354-05	No Dilutions	
AC15354-06	No Dilutions	
AC15354-07	No Dilutions	
AC15354-08	No Dilutions	
AC15354-09	No Dilutions	

Initial Calibration:

All acceptance criteria were met.

Initial Calibration Verification Standard (ICVS)- Second Source:

All acceptance criteria were met.

Laboratory Control Samples (LCS):

All acceptance criteria were met.

Continuing Calibration Verification Standard (CCVS):

All acceptance criteria were met.

Method Blanks (MB):

<u>Sample</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>Description</u>
BCD2253-BLK1	Decachlorobiphenyl [2C]	<u>s</u>	Surrogate recovery is outside the method control limits.
BCD2253-BLK2	Decachlorobiphenyl [2C]	<u>s</u>	Surrogate recovery is outside the method control limits.
BCD2253-BLK2	Tetrachloro-m-xylene [2C]	<u>s</u>	Surrogate recovery is outside the method control limits.



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

BCD2253-BLK1 Tetrachloro-m-xylene [2C]

Project Number: NCSUPH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 04/30/2024 09:30

 Reported:
 05/23/2024 10:53

Surrogate recovery is outside the method control limits.

EMSL Order ID: 012415354

LIMS Reference ID: AC15354

EMSL Customer ID: GSCH75

Samples:

Sample	<u>Analyte</u>	Qualifier	<u>Description</u>
AC15354-05	Decachlorobiphenyl	S	Surrogate recovery is outside the method control limits.
AC15354-05	Decachlorobiphenyl [2C]	S	Surrogate recovery is outside the method control limits.
AC15354-05	Tetrachloro-m-xylene [2C]	S	Surrogate recovery is outside the method control limits.

S

EMSL Analytical, Inc. certifies that this data package is in compliance with the terme and conditions of this contract, both technically and for completeness, for other thatn the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer ---readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature

Ch MM &

Owen McKenna Laboratory Manager or other approved signatory

Certified Analyses included in this Report

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

EMSL Order ID: 012415354 LIMS Reference ID: AC15354 EMSL Customer ID: GSCH75

Project Number:

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 04/30/2024 09:30

 Reported:
 05/23/2024 10:53

NCSUPH

Notes and Definitions

Item	Definition
S	Surrogate recovery is outside the method control limits.
ND	Non Detect. This notation would be used in the results column in lieu of a "U" qualifier.
U	Compound was analyzed for but not detected at a listed and appropriately adjusted reporting level.
J (Target)	Concentration estimated between Reporting Limit and MDL.
J	Estimated value reported below adjusted reporting limit for target compounds or estimating a concentration for TICs where a 1:1 response is assumed
В	Compound found in associated method blank as well as in the sample.
E	Estimated value exceeding upper calibration range of instrument. Ethanol and isopropyl alcohol are not specifically targeted to dilute within calibration range.
D	Compound reported from additional diluted analysis.
N	indicates presumptive evidence of a compound based on library search match.

EMSL

Environmental Chemistry - Sampling Event Chain of Custody

EMSL Analytical, Inc. Cinnaminson, NJ 08077 200 Route 130 North

PHONE: (800) 220-3675

Other (Describe Above) EMAIL: EnvChemistry2@EMSL.com 1 Day State Reporting Required? Residential (Non-Taxable) Comments 6 2 Days No. of Samples in Shipment: Country Yes State of Connecticut (CT) must select project location: 3 Days Field Temp. Test Time Excel List Test(s) Needed (Write in test below, then check on sample line:) Commercial (Taxable) Company Name: Same as Customer Information 4 Days Purchase Order Sample(s) Temperature Upon Receipt (LAB ONLY) Field Temp. Deg.C Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) ✓ Hzresults EDD Field PH Test Time 1 Week Field PH PWS ID: The following TAT's are subject to Lab approval, Call lab to confirm TAT before submittal: Sample Condition Upon Receipt: S Reduced Deliverables [68f 4: US State where samples collected: NC Email(s) for Invoice: ACISSE EMSL Order Number / Lab Use Only Street Address: City, State, Zip: Billing Contact: Yes Billing ID Phone: Other (Specify) Billing Information 1 1 PCB Method TO-10A 1 Samples Received Chilled? Date/Time: 04/29/2024: 1400 Results and QC Describe below in Special Instructions Preservative Country: USA 2 2 2 HNO3 3 H2SO4 4 ICE none 5 Other 2 Weeks none none none Sampled By Signature: Yes A=Air SL=Sludge O=Other CLIENT Matrix W=Water 3574 S=Soil Results Only Standard Turn-Around-Time: 7 If Yes, for NPDES? 04/25/2024: 1912 A 04/26/2024: 1912 A 04/25/2024: 1911 A 04/25/2024: 1900 A Email(s) for Report: jahrens@geosyntec.com Date / Time Collected Geosyntec Consultans Webb Charlotte, NC, 28203 FX# 2740 1590 1300 S. Mint Street EMSL 704-227-0840 1 Grab 8 Jeff Ahrens MACC Comp Reporting Requirements: Relinquished by: Marc Webb Samples Collected by (Check One): A-08-526-042424 A-07-510E-042424 A-05-608J-042424 Name/No: NCSUPH Turn-Around-Time (TAT) A-10-400-042424 EMSL ANALYTICAL, INC. Client Sample ID EMSL LIMS Project ID: Company Name: Sampled By Name: Method of Shipment: City, State, Zip: Street Address: Contact Name Customer ID: Samples for Compliance? shone: Customer Information

Relinquished by

9:30am

34

Date 7 30

Received by:

Received by:

Date/Time:

Date/Fime

Page 1 of 2

snice

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Cristody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Environmental Chemistry - Sampling Event

Chain of Custody

ACISSE Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077 PHONE: (800) 220-3675 EMAIL: EnvChemistry2@EMSL.com

430 24 9.30m Comments Field Temp. Test Time List Test(s) Needed (Write in test below, then check on sample line:) Field Temp. Deg.C Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.) Field PH Test Time Field PH Sample Condition Upon Receipt: fest 4: Received by: Received by: 1 PCB Method TO-10A 7 1 7 7 7 Date/Time: 04/29/2024: 1400 Describe in Special Instructions Preservative none none none none none 1 HCL 2 HNO3 3 H2SO4 4 ICE 5 Other W=Water S=Soil A=Air SL=Sludge O=Other Matrix 4 X ⋖ 4 04/25/2024:1857 Date / Time V **7** 04/25/2024 : 1852 04/25/2024 : 04/25/2024 ntrolled Document - COC-80 Chemistry Sampling Event R2 02/26/2021 7 7 Grab Comp Relinquished by: Marc Webb A-04-714B-042424 A-06-635-042424 A-03-742-042424 DUP-03-742-042424 A-14-ROOF-042424 Client Sample ID Method of Shipment: Relinquished by

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Page 2 of 2



Phone: 843-958-8150 Direct: 843-480-4009 Cell (843) 259-9734 Toll Free: 888-958-8170

Conduct Field Surveys From Your Smart Device Today! Download EMSL's APP: iTunes App Store - Apple or Google Play

Resources: LABConnectTM | Order Products | Free Webinars | Additional Resources | EMSL.tv

Connect With Us:







"This email may contain privileged and confidential information and is solely for the use of the sender's intended recipient(s). If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you received this email in error, please notify the sender by reply email and delete all copies and attachments. Thank you."

From: Marc Webb < Marc. Webb@Geosyntec.com>

Sent: Thursday, May 2, 2024 12:59 PM

To: Stressman, Emily < estressman@EMSL.com>

Subject: Air Sample Sampling Times

[EXTERNAL E-MAIL]

Hi Emily,

Can you provide the following table to the lab that displays our air sample IDs, pre/post pump flow rates, sampling time, and sample volume (the volume uses the average of the pre and post flow check). Feel free to have the lab check our math:

Sample ID	Pre-Flow (L/min)	Post-Flow (L/min)	Total Sampling Time (min)	Total Sample Volume (L)
A-13-106-042424	5	4.92	1440	7142.4
DUP-01-106-042424	5.15	5.07	1440	7358.4
A-15-117-042424	5.22	5.17	1440	7480.8
A-11-209-042424	5.12	5.08	1440	7344
A-12-228-042424	5.21	5.17	1440	7473.6
A-01-216-042424	5.21	5.17	1440	7473.6
A-02-317F-042424	5.3	5.24	1440	7588.8
A-10-400-042424	5.2	5.17	1440	7466.4
A-09-402G-042624	5.16	5.1	1440	7387.2
DUP-02-402G-042624	5.24	5.2	1440	7516.8
A-07-510E-042424	5.21	5.19	1440	7488
A-08-526-042424	5.25	5.17	1440	7502.4
A-05-608J-042424	5.18	5.09	1440	7394.4
A-06-635-042424	5.13	5.09	1440	7358.4
A-04-714B-042424	5.14	5.16	1440	7416
A-03-742-042424	5.24	5.2	1440	7516.8

DUP-03-742-042424	5.16	5.1	1440	7387.2
A-14-ROOF-042424	5.26	5.25	1440	7567.2
Blank-01-117-042424	N/A	N/A	1440	passive air flow only, no pump

Thanks

Marc Webb, PhD
Senior Staff Professional
Geosyntec
consultants

engineers | scientists | innovators

2501 Blue Ridge Road, Suite 430 Raleigh, NC 27607

Office: (919) 424-1856 Mobile: (919) 943-6697 www.geosyntec.com

Geosyntec Consultants, Inc.¹
Geosyntec Consultants of NC, P.C.²

1 – Services Outside of North Carolina

2 - Services Inside North Carolina

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

AROCLOR

SAMPLE DATA

1 - FORM I ANALYSIS DATA SHEET

A-10-400-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-01 File ID: L14372.D

Sampled: 04/25/24 19:12 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 18:20

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00485	0.00670	_
11104-28-2	Aroclor-1221		0.00485	0.00670	
11141-16-5	Aroclor-1232		0.00485	0.00670	
53469-21-9	Aroclor-1242		0.00485	0.00670	
12672-29-6	Aroclor-1248		0.00128	0.00670	
11097-69-1	Aroclor-1254		0.00128	0.00670	
11096-82-5	Aroclor-1260		0.00128	0.00670	
37324-23-5	Aroclor-1262	0.119	0.00128	0.00670	
11100-14-4	Aroclor-1268		0.00128	0.00670	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14372.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 6:20 pm

Operator : AxJ/KC Sample : AC15354-01

Misc

ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:41:11 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitorin	g Compounds					
 SA Tetrachlo 	. 3.360	4.018	124.8E6	163.2E6	9.827	9.841
Spiked Amount	10.000 Range	60 - 120	Recove	ry =	98.27%	98.41%
SA Decachlor	. 10.618	12.294	33942192	163.0E6	10.037	10.787
Spiked Amount	10.000 Range	60 - 120	Recove	ry =	100.37%	107.87%
Target Compounds	;					

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

	~. ⊳`	- c - c - c - c - c - c - c - c - c - c						
		Aroclor-1016			0	0	N.D.	N.D.
aver	age	Aroclor-1016					0.000	0.000
	Sum	Aroclor-1221			0	0	N.D.	N.D.
Aver	age	Aroclor-1221					0.000	0.000
	Sum	Aroclor-1232			0	0	N.D.	N.D.
Aver	age	Aroclor-1232					0.000	0.000
	Sum	Aroclor-1242			0	0	N.D.	N.D.
Aver	age	Aroclor-1242					0.000	0.000
	Sum	Aroclor-1248			0	0	N.D.	N.D.
Aver	age	Aroclor-1248					0.000	0.000
	Sum	Aroclor-1254			0	0	N.D.	N.D.
Aver	age	Aroclor-1254					0.000	0.000
33)	L7	Aroclor-1	7.026	8.426	59915048	86899933	133.791	137.802
34)	L7	Aroclor-1	7.400	8.716	62946273	80211569	104.357	110.687
35)	L7	Aroclor-1	7.939	9.429	58591469	32910419	85.751	86.417
36)	L7	Aroclor-1	8.276	9.772	45705149	67687231	76.110	78.110
37)	L7	Aroclor-1	8.702	10.118	52074421	75709238	44.558	45.408
	Sum	Aroclor-1262			279.2E6	343.4E6	444.566	458.424
Aver	age	Aroclor-1262					88.913	91.685
	Sum	Aroclor-1268			0	0	N.D.	N.D.
Aver	age	Aroclor-1268					0.000	0.000
		Aroclor-1260			0	0	N.D.	N.D.
Aver	age	Aroclor-1260					0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14372.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 6:20 pm

Operator : AxJ/KC Sample : AC15354-01

Misc :

ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:41:11 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

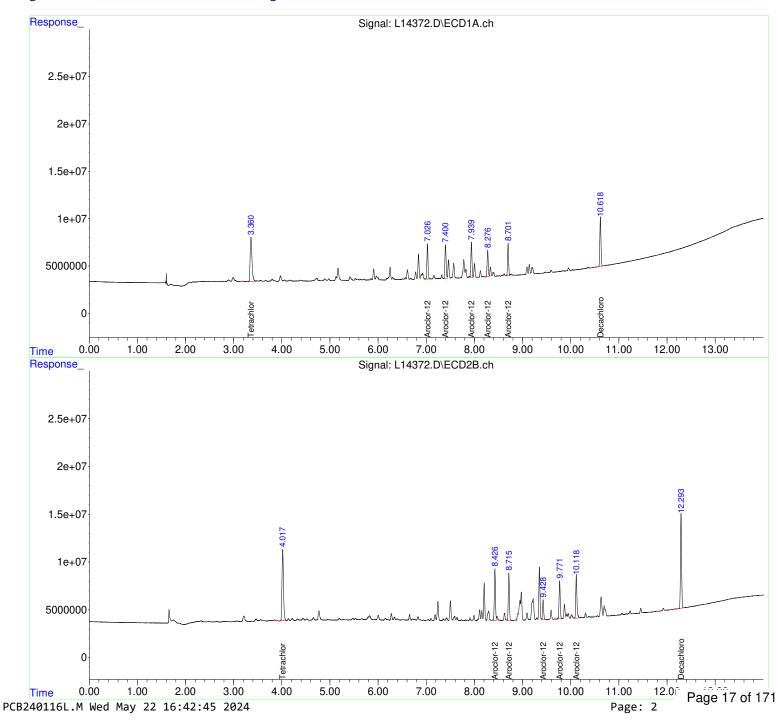
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

A-07-510E-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-02 File ID: L14373.D

Sampled: 04/26/24 19:12 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 18:36

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00483	0.00668	
11104-28-2	Aroclor-1221		0.00483	0.00668	
11141-16-5	Aroclor-1232		0.00483	0.00668	
53469-21-9	Aroclor-1242		0.00483	0.00668	
12672-29-6	Aroclor-1248		0.00127	0.00668	
11097-69-1	Aroclor-1254		0.00127	0.00668	
11096-82-5	Aroclor-1260		0.00127	0.00668	
37324-23-5	Aroclor-1262	0.0981	0.00127	0.00668	
11100-14-4	Aroclor-1268		0.00127	0.00668	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14373.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 6:36 pm

Operator : AxJ/KC Sample : AC15354-02

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:45:21 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Compound

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

RT#2

Resp#1

Resp#2

ug/L

ug/L

RT#1

	Compound	VI#T	NI#Z	Kesp#1	Resp#2	ug/L	ug/L	
	em Monitoring							
1) SA	Tetrachlo			89206324		7.027	7.056	
		10.000 Range				70.27%	70.56%	
	Decachlor			61445512			7.728	
Spiked	d Amount 1	10.000 Range	60 - 1	20 Recove	ery =	73.47%	77.28%	
Targe	et Compounds							
Sum	Aroclor-1016			0	0	N.D.	N.D.	
Average	Aroclor-1016					0.000	0.000	
Sum	Aroclor-1221			0	0	N.D.	N.D.	
Average	Aroclor-1221					0.000	0.000	
Sum	Aroclor-1232			0	0	N.D.	N.D.	
Average	Aroclor-1232					0.000	0.000	
Sum	Aroclor-1242			0	0	N.D.	N.D.	
Average	Aroclor-1242					0.000	0.000	
Sum	Aroclor-1248			0	0	N.D.	N.D.	
Average	Aroclor-1248					0.000	0.000	
Sum	Aroclor-1254			0	0	N.D.	N.D.	
Average	Aroclor-1254					0.000	0.000	
33) L7	Aroclor-1	7.025	8.426	53655940	80126122	119.814	127.061	
34) L7	Aroclor-1	7.399	8.716	53412822	67713201	88.552	93.440	
35) L7	Aroclor-1	7.938	9.429	46334242	24673976	67.812	64.790	
36) L7	Aroclor-1	8.275	9.772	34802952	51219745	57.955	59.107	
37) L7	Aroclor-1	8.700	10.119	38869719	55691841	33.259	33.402	
Sum	Aroclor-1262			227.1E6	279.4E6	367.392	377.799	
Average	Aroclor-1262					73.478	75.560	
Sum	Aroclor-1268			0	0	N.D.	N.D.	
Average	Aroclor-1268					0.000	0.000	
Sum	Aroclor-1260			0	0	N.D.	N.D.	
Average	Aroclor-1260					0.000	0.000	

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14373.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 6:36 pm

Operator : AxJ/KC Sample : AC15354-02

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:45:21 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

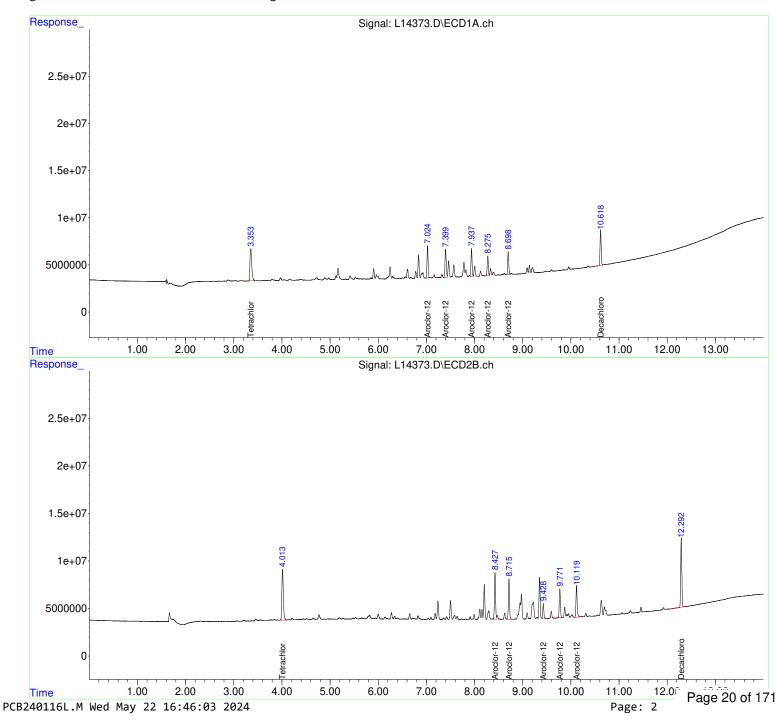
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

A-08-526-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-03 File ID: L14374.D

Sampled: 04/25/24 19:11 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 18:53

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00483	0.00666	
11104-28-2	Aroclor-1221		0.00483	0.00666	
11141-16-5	Aroclor-1232		0.00483	0.00666	
53469-21-9	Aroclor-1242		0.00483	0.00666	
12672-29-6	Aroclor-1248		0.00127	0.00666	
11097-69-1	Aroclor-1254		0.00127	0.00666	
11096-82-5	Aroclor-1260		0.00127	0.00666	
37324-23-5	Aroclor-1262	0.0972	0.00127	0.00666	
11100-14-4	Aroclor-1268		0.00127	0.00666	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14374.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 6:53 pm

Operator : AxJ/KC Sample : AC15354-03

Misc

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 22 16:46:28 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Systa	em Monitoring	Compounds					
	Tetrachlo		4.014	115.1F6	150.2E6	9.064	9.056
		L0.000 Range				90.64%	90.56%
	Decachlor						9.975
	d Amount 1						99.75%
_	et Compounds						
	Aroclor-1016			0	0	N.D.	N.D.
Average	Aroclor-1016					0.000	0.000
	Aroclor-1221			0	0	N.D.	N.D.
Average	Aroclor-1221					0.000	0.000
Sum	Aroclor-1232			0	0	N.D.	N.D.
Average	Aroclor-1232					0.000	0.000
Sum	Aroclor-1242			0	0	N.D.	N.D.
Average	Aroclor-1242					0.000	0.000
Sum	Aroclor-1248			0	0	N.D.	N.D.
Average	Aroclor-1248					0.000	0.000
Sum	Aroclor-1254			0	0	N.D.	N.D.
Average	Aroclor-1254					0.000	0.000
	Aroclor-1	7.025	8.425		80661175		127.909
	Aroclor-1	7.399	8.715		69336402		95.680
•	Aroclor-1	7.937	9.428		24006085	66.200	
	Aroclor-1	8.275	9.771		47745354	54.283	55.097
	Aroclor-1	8.700	10.117		44858040		26.904
	Aroclor-1262			220.8E6	266.6E6	364.481	
Average	Aroclor-1262					72.896	73.725
Sum	Aroclor-1268			0	0	N.D.	N.D.
Average	Aroclor-1268					0.000	0.000
	Aroclor-1260			0	0	N.D.	N.D.
Average	Aroclor-1260					0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14374.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 6:53 pm

Operator : AxJ/KC Sample : AC15354-03

Misc :

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:46:28 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

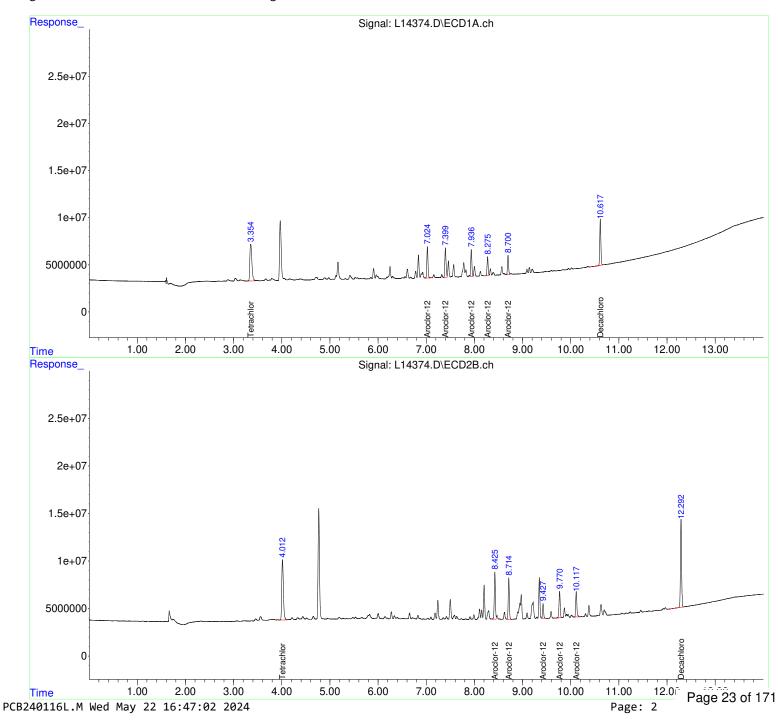
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

A-05-608J-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-04 File ID: L14375.D

Sampled: 04/25/24 19:00 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 19:09

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00490	0.00676	
11104-28-2	Aroclor-1221		0.00490	0.00676	
11141-16-5	Aroclor-1232		0.00490	0.00676	
53469-21-9	Aroclor-1242		0.00490	0.00676	
12672-29-6	Aroclor-1248		0.00129	0.00676	
11097-69-1	Aroclor-1254		0.00129	0.00676	
11096-82-5	Aroclor-1260		0.00129	0.00676	
37324-23-5	Aroclor-1262	0.133	0.00129	0.00676	
11100-14-4	Aroclor-1268		0.00129	0.00676	

^{*} Values outside of QC limits

Resp#2 ug/L

ug/L

Data Path : C:\gcms\1\data\L240502\

Data File : L14375.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:09 pm

Operator : AxJ/KC Sample : AC15354-04

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:47:20 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

RT#1

Quant Title : 8082a PCB

QLast Update: Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Compound

Target Compounds

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25

System Monitoring Compounds 1) SA Tetrachlo... 3.362 4.019 124.4E6 164.0E6 9.797 9.890 Spiked Amount 10.000 Range 60 - 120 Recovery = 97.97% 98.90% 2) SA Decachlor... 10.618 12.293 90987516 172.3E6 10.879 11.403 Spiked Amount 10.000 Range 60 - 120 Recovery = 108.79% 114.03%

Resp#1

RT#2

	Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
34) L7 35) L7 36) L7 37) L7 Sum Average	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1262 Aroclor-1262 Aroclor-1268	7.025 7.400 7.939 8.276 8.701	8.427 8.716 9.428 9.772 10.119	70229825 63720460 48736235	83455237	116.433 93.257 81.157	123.169 92.383
Average	Aroclor-1268					0.000	0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14375.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:09 pm

Operator : AxJ/KC Sample : AC15354-04

Misc :

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:47:20 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

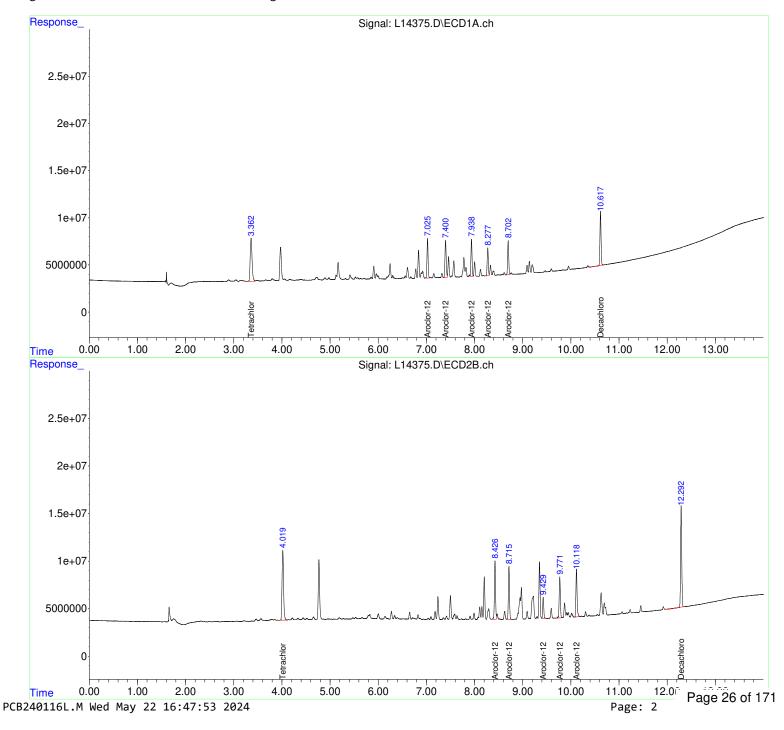
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

A-06-635-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-05 File ID: L14376.D

Sampled: 04/25/24 19:06 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 19:25

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00492	0.00679	
11104-28-2	Aroclor-1221		0.00492	0.00679	
11141-16-5	Aroclor-1232		0.00492	0.00679	
53469-21-9	Aroclor-1242		0.00492	0.00679	
12672-29-6	Aroclor-1248		0.00130	0.00679	
11097-69-1	Aroclor-1254		0.00130	0.00679	
11096-82-5	Aroclor-1260		0.00130	0.00679	
37324-23-5	Aroclor-1262	0.132	0.00130	0.00679	
11100-14-4	Aroclor-1268		0.00130	0.00679	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14376.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:25 pm

Operator : AxJ/KC Sample : AC15354-05

Misc

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:48:05 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

System	Monitoring	Compounds
--------	------------	-----------

1) SA Tetrachlo... 3.361 4.019 152.5E6 203.9E6 12.011 12.295 Spiked Amount 10.000 Range 60 - 120 Recovery = 120.11%# 122.95%# 2) SA Decachlor... 10.618 12.293 105.6E6 202.0E6 12.625 13.364 Spiked Amount 10.000 Range 60 - 120 Recovery = 126.25%# 133.64%#

	_							
	_	et Compounds			0	0	N. D.	N. D.
A		Aroclor-1016			0	0	N.D.	N.D.
aver	rage	Aroclor-1016					0.000	0.000
	Sum	Aroclor-1221			0	0	N.D.	N.D.
Aver	rage	Aroclor-1221					0.000	0.000
	Sum	Aroclor-1232			0	0	N.D.	N.D.
Aver	rage	Aroclor-1232					0.000	0.000
	Sum	Aroclor-1242			0	0	N.D.	N.D.
Aver	age	Aroclor-1242					0.000	0.000
	Sum	Aroclor-1248			0	0	N.D.	N.D.
Aver	age	Aroclor-1248					0.000	0.000
	Sum	Aroclor-1254			0	0	N.D.	N.D.
Aver	age	Aroclor-1254					0.000	0.000
33)	L7	Aroclor-1	7.026	8.426	69291226	104.0E6	154.728	164.844
34)	L7	Aroclor-1	7.400	8.716	70216431	89790704	116.410	123.905
35)	L7	Aroclor-1	7.939	9.429	63245624	34674811	92.562	91.050
36)	L7	Aroclor-1	8.277	9.772	47478862	70908730	79.063	81.828
37)	L7	Aroclor-1	8.701	10.118	49762682	71429986	42.580	42.841
	Sum	Aroclor-1262			300.0E6	370.8E6	485.344	504.468
Aver	age	Aroclor-1262					97.069	100.894
	Sum	Aroclor-1268			0	0	N.D.	N.D.
Aver	rage	Aroclor-1268					0.000	0.000
	Sum	Aroclor-1260			0	0	N.D.	N.D.

0.000

0.000

Average Aroclor-1260

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14376.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:25 pm

Operator : AxJ/KC Sample : AC15354-05

Misc :

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:48:05 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

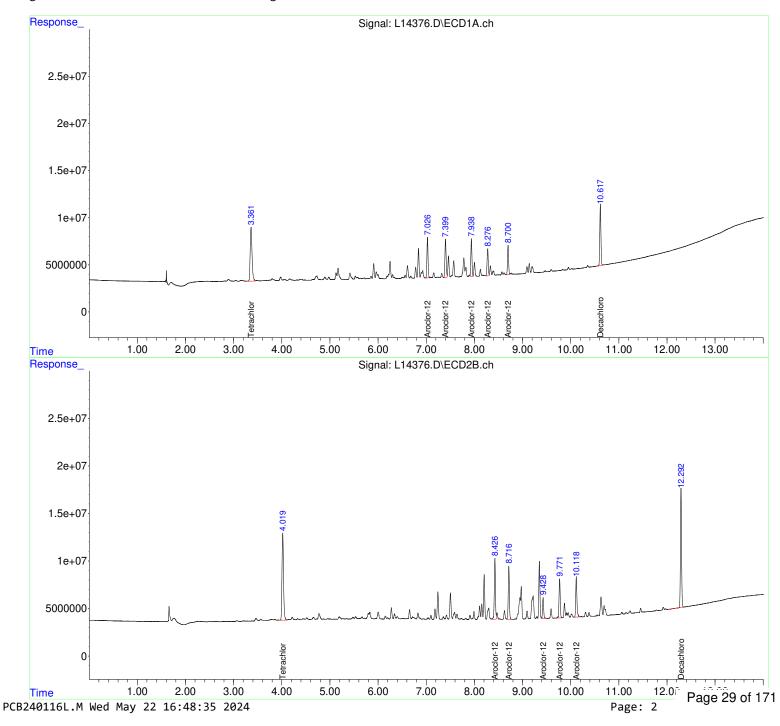
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

A-04-714B-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-06 File ID: L14378.D

Sampled: 04/25/24 18:52 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 19:57

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00488	0.00674	_
11104-28-2	Aroclor-1221		0.00488	0.00674	
11141-16-5	Aroclor-1232		0.00488	0.00674	
53469-21-9	Aroclor-1242		0.00488	0.00674	
12672-29-6	Aroclor-1248		0.00129	0.00674	
11097-69-1	Aroclor-1254		0.00129	0.00674	
11096-82-5	Aroclor-1260		0.00129	0.00674	
37324-23-5	Aroclor-1262	0.153	0.00129	0.00674	
11100-14-4	Aroclor-1268		0.00129	0.00674	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14378.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:57 pm

Operator : AxJ/KC Sample : AC15354-06

Misc :

ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:48:53 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitoring Compounds					
1) SA Tetrachlo 3.358	4.016 1	L17.0E6	153.7E6	9.215	9.268
Spiked Amount 10.000 Range	60 - 120	Recover	ry =	92.15%	92.68%
2) SA Decachlor 10.618	12.294 86	997898	151.2E6	9.685	10.006
Spiked Amount 10.000 Range	60 - 120	Recover	ry =	96.85%	100.06%
Target Compounds					
Sum Aroclor-1016		0	0	N.D.	N.D.

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Average	Aroclor-1016					0.000	0.000
Sur	n Aroclor-1221			0	0	N.D.	N.D.
Average	Aroclor-1221					0.000	0.000
	n Aroclor-1232			0	0	N.D.	N.D.
Average	e Aroclor-1232					0.000	0.000
	n Aroclor-1242			0	0	N.D.	N.D.
Average	e Aroclor-1242					0.000	0.000
	n Aroclor-1248			0	0	N.D.	N.D.
Average	e Aroclor-1248					0.000	0.000
	n Aroclor-1254			0	0	N.D.	N.D.
Average	e Aroclor-1254					0.000	0.000
,	Aroclor-1	7.025	8.426	72929170	112.1E6	162.852	177.725
,	Aroclor-1	7.400	8.716				139.932
,	Aroclor-1	7.939	9.428		42069677		110.468
	Aroclor-1	8.276	9.771		87959080		
,	Aroclor-1	8.701	10.119			64.598	
	n Aroclor-1262			362.1E6	453.4E6		
Average	Aroclor-1262					113.501	119.103
	n Aroclor-1268			0	0	N.D.	N.D.
Average	e Aroclor-1268					0.000	0.000
	n Aroclor-1260			0	0	N.D.	N.D.
Average	e Aroclor-1260					0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14378.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:57 pm

Operator : AxJ/KC Sample : AC15354-06

Misc :

ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:48:53 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

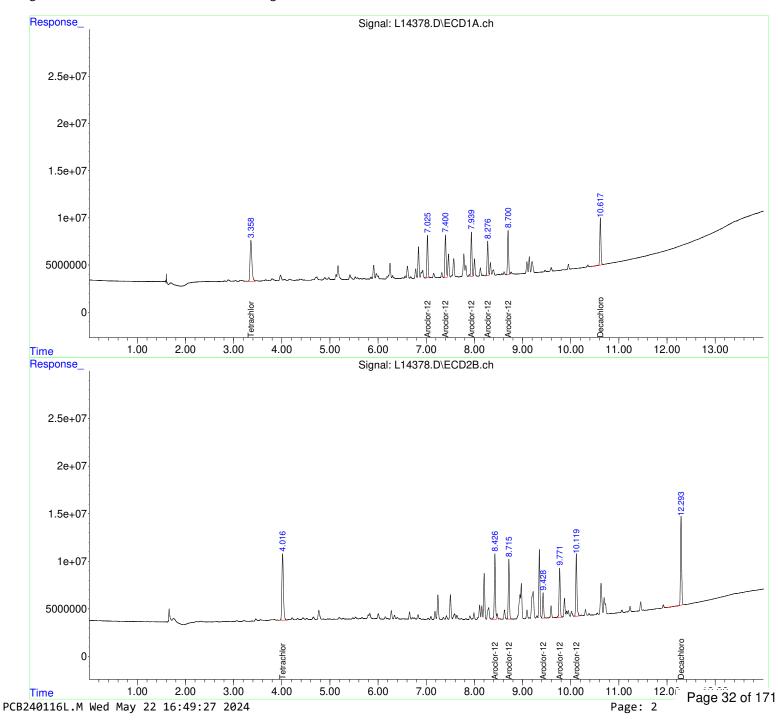
Quant Title : 8082a PCB

QLast Update: Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

DUP-03-742-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-07 File ID: L14379.D

Sampled: 04/25/24 18:57 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 20:13

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00490	0.00677	_
11104-28-2	Aroclor-1221		0.00490	0.00677	
11141-16-5	Aroclor-1232		0.00490	0.00677	
53469-21-9	Aroclor-1242		0.00490	0.00677	
12672-29-6	Aroclor-1248		0.00129	0.00677	
11097-69-1	Aroclor-1254		0.00129	0.00677	
11096-82-5	Aroclor-1260		0.00129	0.00677	
37324-23-5	Aroclor-1262	0.0798	0.00129	0.00677	
11100-14-4	Aroclor-1268		0.00129	0.00677	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14379.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 8:13 pm

Operator : AxJ/KC : AC15354-07 Sample

Misc

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:49:35 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Compound

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25

RT#2

Resp#1

Resp#2

ug/L

ug/L

RT#1

rachlo count compounds cclor-1016 cclor-1221 cclor-1221	10.000 Rang 10.617 10.000 Rang	ge 60 - 1 12.292	58417708	ery = 106.2E6	69.39% 6.985 69.85% N.D.	6.793 67.93% 7.028 70.28% N.D.
rachlo count compounds cclor-1016 cclor-1221 cclor-1221	3.357 10.000 Rang 10.617 10.000 Rang	ge 60 - 1 12.292	.20 Recove 58417708 .20 Recove	ery = 106.2E6 ery =	69.39% 6.985 69.85% N.D.	67.93% 7.028 70.28% N.D.
count achlor count compounds cclor-1016 cclor-1016 cclor-1221	10.000 Rang 10.617 10.000 Rang	ge 60 - 1 12.292	.20 Recove 58417708 .20 Recove	ery = 106.2E6 ery =	69.39% 6.985 69.85% N.D.	67.93% 7.028 70.28% N.D.
achlor count compounds clor-1016 clor-1221 clor-1221	10.617 10.000 Rang	12.292	58417708 20 Recove	106.2E6 ery =	6.985 69.85% N.D.	7.028 70.28% N.D.
count compounds color-1016 color-1016 color-1221	10.000 Rang		.20 Recov€	ery =	69.85% N.D.	70.28% N.D.
compounds oclor-1016 oclor-1016 oclor-1221 oclor-1221		ge 60 - 1			N.D.	N.D.
oclor-1016 oclor-1016 oclor-1221 oclor-1221			0	0		
clor-1016 clor-1221 clor-1221			0	0		
clor-1221 clor-1221					0 000	
clor-1221					0.000	0.000
			0	0	N.D.	N.D.
					0.000	0.000
clor-1232			0	0	N.D.	N.D.
clor-1232					0.000	0.000
clor-1242			0	0	N.D.	N.D.
clor-1242					0.000	0.000
clor-1248			0	0	N.D.	N.D.
clor-1248					0.000	0.000
clor-1254			0	0	N.D.	N.D.
clor-1254	•				0.000	0.000
clor-1		8.426	42763370	61092031	95.491	96.877
						72.087
						50.719
						48.200
clor-1	8.701	10.119				
			183.7E6	223.0E6		
clor-1262					58.968	59.401
clor-1268			0	0	N.D.	N.D.
clor-1268					0.000	0.000
			0	0	N.D.	N.D.
	1				0.000	0.000
֡	clor-1 clor-1 clor-1 clor-1262 clor-1262 clor-1268 clor-1268		clor-1 7.399 8.716 clor-1 7.938 9.429 clor-1 8.276 9.771 clor-1 8.701 10.119 clor-1262 clor-1262 clor-1268 clor-1268	clor-1 7.399 8.716 41444136 clor-1 7.938 9.429 37467277 clor-1 8.276 9.771 28053491 clor-1 8.701 10.119 33998358 clor-1262 183.7E6 clor-1262 0 clor-1268 0 clor-1260 0	clor-1 7.399 8.716 41444136 52239439 clor-1 7.938 9.429 37467277 19315351 clor-1 8.276 9.771 28053491 41768234 clor-1 8.701 10.119 33998358 48558075 clor-1262 183.7E6 223.0E6 clor-1262 0 0 clor-1268 0 0 clor-1268 0 0 clor-1260 0 0	clor-1 7.399 8.716 41444136 52239439 68.709 clor-1 7.938 9.429 37467277 19315351 54.835 clor-1 8.276 9.771 28053491 41768234 46.716 clor-1 8.701 10.119 33998358 48558075 29.091 clor-1262 183.7E6 223.0E6 294.842 clor-1268 0 N.D. clor-1268 0 N.D. clor-1260 0 N.D.

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14379.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 8:13 pm

Operator : AxJ/KC Sample : AC15354-07

Misc :

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:49:35 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

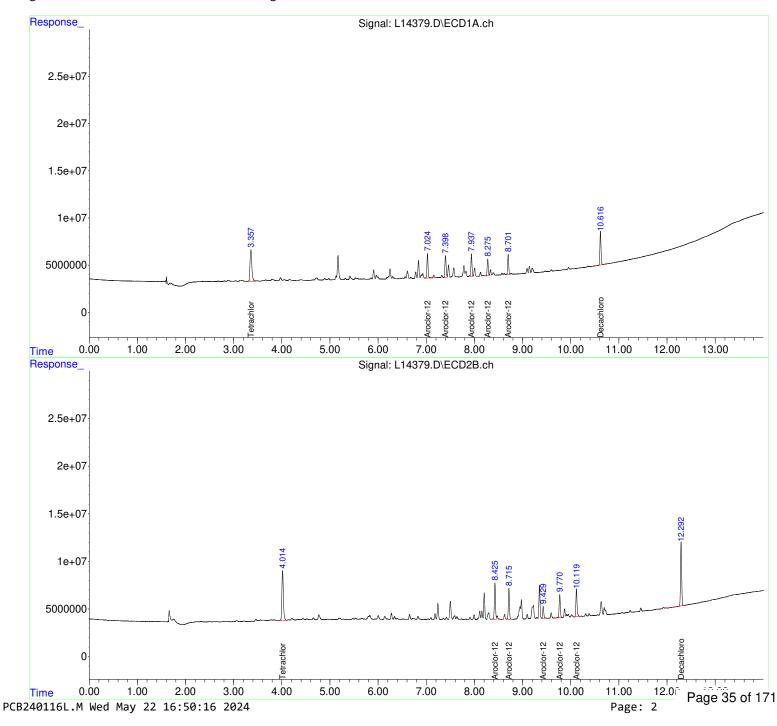
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

A-03-742-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-08 File ID: L14380.D

Sampled: 04/25/24 18:57 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 20:29

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00482	0.00665	_
11104-28-2	Aroclor-1221		0.00482	0.00665	
11141-16-5	Aroclor-1232		0.00482	0.00665	
53469-21-9	Aroclor-1242		0.00482	0.00665	
12672-29-6	Aroclor-1248		0.00127	0.00665	
11097-69-1	Aroclor-1254		0.00127	0.00665	
11096-82-5	Aroclor-1260		0.00127	0.00665	
37324-23-5	Aroclor-1262	0.0879	0.00127	0.00665	
11100-14-4	Aroclor-1268		0.00127	0.00665	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14380.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 8:29 pm

Operator : AxJ/KC Sample : AC15354-08

Misc :

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:50:29 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Target Compounds

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

System	Monitoring	Compounds
--------	------------	-----------

	Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
34) L7 35) L7 36) L7 37) L7 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1262 Aroclor-1262	7.025 7.399 7.938 8.276 8.700	9.429	46775106 42547168 32401827 39137923			61.184
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14380.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 8:29 pm

Operator : AxJ/KC Sample : AC15354-08

Misc :

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:50:29 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

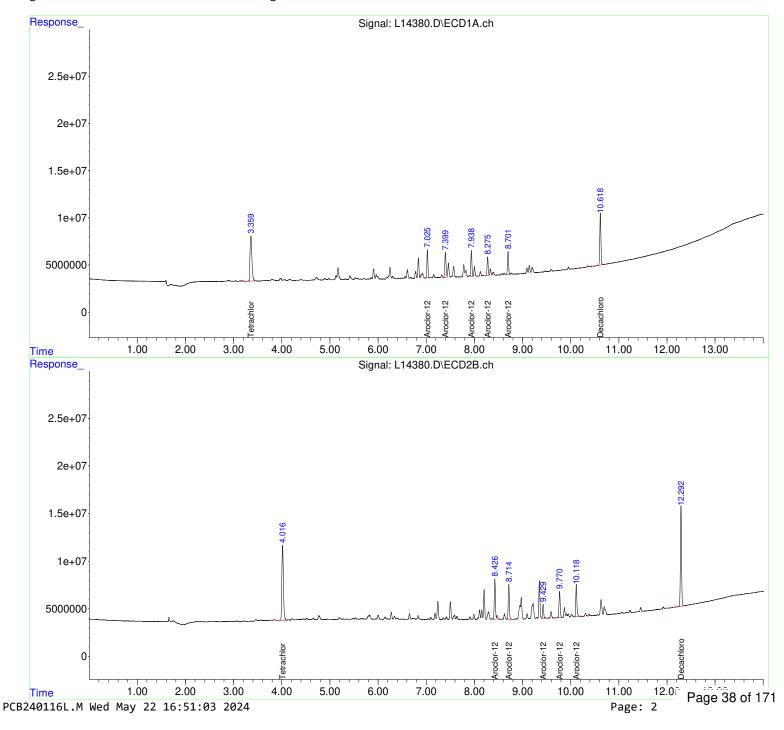
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

A-14-ROOF-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15354-09 File ID: L14381.D

Sampled: 04/25/24 18:57 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 20:46

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00478	0.00661	
11104-28-2	Aroclor-1221		0.00478	0.00661	
11141-16-5	Aroclor-1232		0.00478	0.00661	
53469-21-9	Aroclor-1242		0.00478	0.00661	
12672-29-6	Aroclor-1248		0.00126	0.00661	
11097-69-1	Aroclor-1254		0.00126	0.00661	
11096-82-5	Aroclor-1260		0.00126	0.00661	
37324-23-5	Aroclor-1262		0.00126	0.00661	
11100-14-4	Aroclor-1268		0.00126	0.00661	

^{*} Values outside of QC limits

Data Path: T:\Data\ECD-L\L240502\

Data File : L14381.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 8:46 pm

Operator : AxJ/KC sample : AC15354-09

Misc

ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:11:06 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: CLPest II Signal #1 Phase : CLPest I

Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitoring Compounds 1) SA Tetrachlo 3.362 4.019 Spiked Amount 10.000 Range 60 - 12 2) SA Decachlor 10.616f 12.292f Spiked Amount 10.000 Range 60 - 12	0 Recovery 91264029 177	= 10 .0E6	8.74% 1 10.912m	10.22% 11.714m
Target Compounds Sum Aroclor-1016 Average Aroclor-1016	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1221 Average Aroclor-1221	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1232 Average Aroclor-1232	0	0	N.D. 0.000	
Sum Aroclor-1242 Average Aroclor-1242	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1248 Average Aroclor-1248	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1254 Average Aroclor-1254	0	0	N.D. 0.000	
Sum Aroclor-1262 Average Aroclor-1262	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1268 Average Aroclor-1268	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1260 Average Aroclor-1260	0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14381.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 8:46 pm

: AxJ/KC Operator : AC15354-09 Sample

Misc

Sample Multiplier: 1 ALS Vial : 17

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:11:06 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

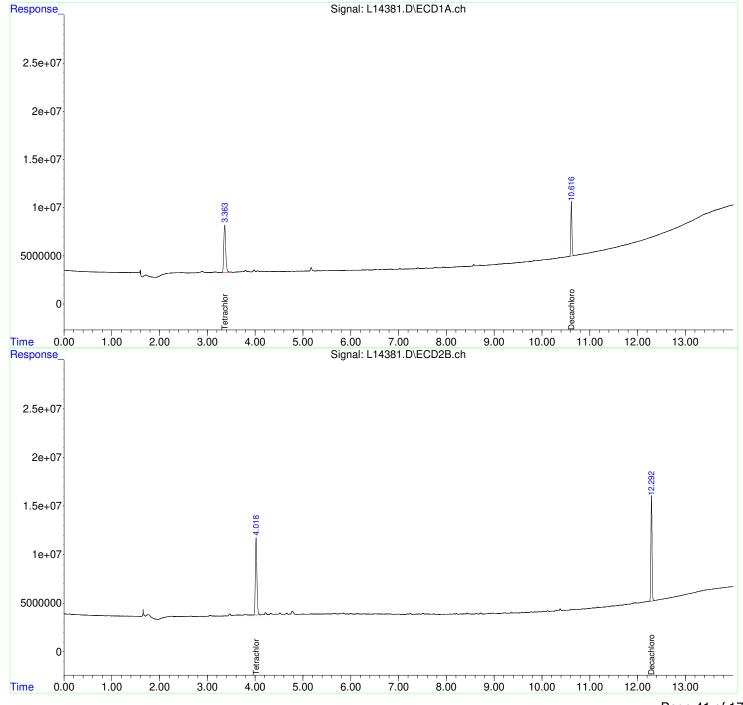
QLast Update : Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



QC DATA

2 - FORM II SYSTEM MONITORING COMPOUND SUMMARY EPA TO-10A

Laboratory:EMSL-CIN-01SDG:AC15354Client:Geosyntec Consultants of NC [GSCH75]Project:NCSUPHMatrix:TubesInstrument:GCECD-L

	(60% - 120%)
AC15354-01	98
AC15354-02	77
AC15354-03	93
AC15354-04	99
AC15354-05	134*
AC15354-06	97
AC15354-07	70
AC15354-08	113
AC15354-09	117
BCD2253-BLK1	120
BCD2253-BLK2	118
BCD2253-BS1	126*
BCD2253-BSD1	95

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-10A

Laboratory: EMSL-CIN-01

Work Order: AC15354

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Matrix: Tubes

Preparation: E

EPA TO-10A

Batch: BCD2253

Laboratory ID:

BCD2253-BS1

Column: 1

Initial/Final:

Project:

1 L / 10 mL

ANALYTE	SPIKE ADDED (µg/m³)	LCS CONCENTRATION (µg/m³)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	1000	941	94	70 - 130
Aroclor-1260	1000	955	95	70 - 130

	SPIKE	LCSD	LCSD		QC LIMITS				
ANALYTE	ADDED (μg/m³)	CONCENTRATION (µg/m³)	% REC. #	% RPD #	RPD	REC.			
Aroclor-1016	1000	856	86	10	25	70 - 130			
Aroclor-1260	1000	872	87	9	25	70 - 130			

4 - FORM IV METHOD BLANK SUMMARY

EPA TO-10A

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75] Project: __Master Project-GSCH75

Blank ID: BCD2253-BLK1 Batch: BCD2253 Prepared: 04/30/2024 15:23

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	BCD2253-BS1	L14369.D	17:32
LCS Dup	BCD2253-BSD1	L14370.D	17:48
A-10-400-042424	AC15354-01	L14372.D	18:20
A-07-510E-042424	AC15354-02	L14373.D	18:36
A-08-526-042424	AC15354-03	L14374.D	18:53
A-05-608J-042424	AC15354-04	L14375.D	19:09
A-06-635-042424	AC15354-05	L14376.D	19:25
A-04-714B-042424	AC15354-06	L14378.D	19:57
DUP-03-742-042424	AC15354-07	L14379.D	20:13
A-03-742-042424	AC15354-08	L14380.D	20:29
A-14-ROOF-042424	AC15354-09	L14381.D	20:46

4 - FORM IV METHOD BLANK SUMMARY

EPA TO-10A

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75] Project: __Master Project-GSCH75

Blank ID: BCD2253-BLK2 Batch: BCD2253 Prepared: 04/30/2024 15:23

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	BCD2253-BS1	L14369.D	17:32
LCS Dup	BCD2253-BSD1	L14370.D	17:48
A-10-400-042424	AC15354-01	L14372.D	18:20
A-07-510E-042424	AC15354-02	L14373.D	18:36
A-08-526-042424	AC15354-03	L14374.D	18:53
A-05-608J-042424	AC15354-04	L14375.D	19:09
A-06-635-042424	AC15354-05	L14376.D	19:25
A-04-714B-042424	AC15354-06	L14378.D	19:57
DUP-03-742-042424	AC15354-07	L14379.D	20:13
A-03-742-042424	AC15354-08	L14380.D	20:29
A-14-ROOF-042424	AC15354-09	L14381.D	20:46

CALIBRATION DATA

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Le	evel 01	Le	evel 02	Le	evel 03	Le	evel 04	Le	evel 05	Le	evel 06
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1016	5	495704.6	10	481634.3	25	452246.8	50	468625.8	100	433606.3	250	384879.6
Aroclor-1016 [2C]	5	641160.4	10	626861.8	25	599450	50	595656.4	100	562532.6	250	510296.8
Aroclor-1221												
Aroclor-1221 [2C]												
Aroclor-1232												
Aroclor-1232 [2C]												
Aroclor-1242												
Aroclor-1242 [2C]												
Aroclor-1248												
Aroclor-1248 [2C]												
Aroclor-1254												
Aroclor-1254 [2C]												
Aroclor-1260	5	781026.2	10	765537.4	25	722357.2	50	728444.8	100	684500.9	250	615981.6
Aroclor-1260 [2C]	5	968226.2	10	967714.3	25	951264.8	50	916812.4	100	883149.8	250	803608.8
Aroclor-1262												
Aroclor-1262 [2C]												
Aroclor-1268												
Aroclor-1268 [2C]												
Aroclor-1016{1}	5	254552.2	10	270321.1	25	264005.1	50	301458.6	100	274980.9	250	251097.1
Aroclor-1016{1} [2C]	5	365920.2	10	358800.2	25	363677.5	50	366185.6	100	349709.8	250	316059.6
Aroclor-1016{2}	5	608935	10	584347.7	25	534036	50	555553	100	503969.6	250	442705.2
Aroclor-1016{2} [2C]	5	844491.4	10	843667.7	25	774303.6	50	778699.8	100	743826.3	250	666996.4
Aroclor-1016{3}	5	739685.2	10	705453.6	25	640627.2	50	658738	100	627663.1	250	556929.6
Aroclor-1016{3} [2C]	5	981463	10	933319.1	25	908458	50	883062.4	100	822345.9	250	764595.6
Aroclor-1016{4}	5	513694	10	469486.3	25	462860.8	50	467019.6	100	438457	250	386406.7
Aroclor-1016{4} [2C]	5	652270.6	10	619959.2	25	591106	50	589974	100	573820.6	250	516572.8
Aroclor-1016{5}	5	361656.2	10	378562.9	25	359704.6	50	360360.2	100	322960.9	250	287259
Aroclor-1016{5} [2C]	5	512371.6	10	534671.8	25	490161.2	50	484294.4	100	459988.8	250	424870.8
Aroclor-1221{1}												
Aroclor-1221{1} [2C]												

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Level 01	Level 02	Level 03	Level 04	Level 05	Level 06
Compound	RF	Level 02	RF	Level 04	Level 05	Level 06
Aroclor-1221{2}	I INF	I NF	NF NF	I NF	NF	Nr.
Aroclor-1221{2} [2C]						
Aroclor-1221{3}						
Aroclor-1221{3} [2C]						
Aroclor-1221{4}						
Aroclor-1221{4} [2C]						
Aroclor-1221{5}						
Aroclor-1221{5} [2C]						
Aroclor-1232{1}						
Aroclor-1232{1} [2C]						
Aroclor-1232{2}						
Aroclor-1232{2} [2C]						
Aroclor-1232{3}						
Aroclor-1232{3} [2C]						
Aroclor-1232{4}						
Aroclor-1232{4} [2C]						
Aroclor-1232{5}						
Aroclor-1232{5} [2C]						
Aroclor-1242{1}						
Aroclor-1242{1} [2C]						
Aroclor-1242{2}						
Aroclor-1242{2} [2C]						
Aroclor-1242{3}						
Aroclor-1242{3} [2C]						
Aroclor-1242{4}						
Aroclor-1242{4} [2C]						
Aroclor-1242{5}						
Aroclor-1242{5} [2C]						
Aroclor-1248{1}						
Aroclor-1248{1} [2C]						

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Τ,	101		1.00		Calibrati				2.00.54AIVI		
	Le	evel 01	Le	evel 02	L C	evel 03	Le	evel 04	Le	evel 05	Le	evel 06
Compound	1	RF		RF		RF		RF		RF		RF
Aroclor-1248{2}												
Aroclor-1248{2} [2C]												
Aroclor-1248{3}												
Aroclor-1248{3} [2C]												
Aroclor-1248{4}												
Aroclor-1248{4} [2C]												
Aroclor-1248{5}												
Aroclor-1248{5} [2C]												
Aroclor-1254{1}												
Aroclor-1254{1} [2C]												
Aroclor-1254{2}												
Aroclor-1254{2} [2C]												
Aroclor-1254{3}												
Aroclor-1254{3} [2C]												
Aroclor-1254{4}												
Aroclor-1254{4} [2C]												
Aroclor-1254{5}												
Aroclor-1254{5} [2C]												
Aroclor-1260{1}	5	597196	10	615118.8	25	571516.4	50	570791.2	100	526233.1	250	466735.2
Aroclor-1260{1} [2C]	5	853152.4	10	861418.2	25	802550	50	796291.2	100	746297.4	250	667387.6
Aroclor-1260{2}	5	972630.4	10	880455.3	25	846115.2	50	841838.6	100	790578.1	250	700014
Aroclor-1260{2} [2C]	5	983957.8	10	978288.9	25	943634.8	50	924282	100	885643.1	250	797185.2
Aroclor-1260{3}	5	736063	10	738947.7	25	706010	50	704821.4	100	644869.6	250	590668.1
Aroclor-1260{3} [2C]	5	649772	10	707498.7	25	669852	50	672994.8	100	660185.9	250	595816
Aroclor-1260{4}	5	503132.4	10	501666.7	25	457006	50	485673.6	100	466189.8	250	416470.4
Aroclor-1260{4} [2C]	5	756918	10	744619.4	25	706958	50	698549.6	100	665158.2	250	599864.8
Aroclor-1260{5}	5	1096109	10	1091498	25	1031138	50	1039100	100	994634.5	250	906019.9
Aroclor-1260{5} [2C]	5	1597330	10	1546746	25	1633329	50	1491944	100	1458465	250	1357790
Aroclor-1262{1}												
Aroclor-1262{1} [2C]												

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	L	evel 01	L	evel 02	L	evel 03	Le	evel 04	L	evel 05	L	evel 06
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1262{2}												
Aroclor-1262{2} [2C]												
Aroclor-1262{3}												
Aroclor-1262{3} [2C]												
Aroclor-1262{4}												
Aroclor-1262{4} [2C]												
Aroclor-1262{5}												
Aroclor-1262{5} [2C]												
Aroclor-1268{1}												
Aroclor-1268{1} [2C]												
Aroclor-1268{2}												
Aroclor-1268{2} [2C]												
Aroclor-1268{3}												
Aroclor-1268{3} [2C]												
Aroclor-1268{4}												
Aroclor-1268{4} [2C]												
Aroclor-1268{5}												
Aroclor-1268{5} [2C]												
Tetrachloro-m-xylene	0.5	1.373183E+07	1	1.370369E+07	2.5	1.295056E+07	5	1.270288E+07	10	1.200848E+07	25	1.1071E+07
Tetrachloro-m-xylene [2C]	0.5	1.759129E+07	1	1.734953E+07	2.5	1.642149E+07	5	1.681078E+07	10	1.606116E+07	25	1.526414E+07
Decachlorobiphenyl	0.5	8980100	1	8709110	2.5	8461256	5	8433468	10	8215975	25	7380793
Decachlorobiphenyl [2C]	0.5	1.6305E+07	1	1.638365E+07	2.5	1.532663E+07	5	1.518878E+07	10	1.453701E+07	25	1.294063E+07

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	L	evel 07	Le	evel 08	L	evel 09	Le	evel 10	Le	evel 11	Level 12	
Compound		RF		RF								
Aroclor-1016												
Aroclor-1016 [2C]												
Aroclor-1221	50	180090.8										
Aroclor-1221 [2C]	50	241326.4										
Aroclor-1232			50	229836.8								
Aroclor-1232 [2C]			50	301519.2								
Aroclor-1242					50	237983.2						
Aroclor-1242 [2C]					50	310751.4						
Aroclor-1248							50	353867.4				
Aroclor-1248 [2C]							50	471050.4				
Aroclor-1254	50	556874.6										
Aroclor-1254 [2C]	50	698202										
Aroclor-1260												
Aroclor-1260 [2C]												
Aroclor-1262									50	700699.1		
Aroclor-1262 [2C]									50	854000.4		
Aroclor-1268											50	1087378
Aroclor-1268 [2C]											50	1726582
Aroclor-1016{1}												
Aroclor-1016{1} [2C]												
Aroclor-1016{2}												
Aroclor-1016{2} [2C]												
Aroclor-1016{3}												
Aroclor-1016{3} [2C]												
Aroclor-1016{4}												
Aroclor-1016{4} [2C]												
Aroclor-1016{5}												
Aroclor-1016{5} [2C]												
Aroclor-1221{1}	50	142867.8										
Aroclor-1221{1} [2C]	50	152274.7										

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	L	evel 07	Le	evel 08	Le	evel 09	Le	evel 10	L	evel 11	Level 12	
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1221{2}	50	168075.4										
Aroclor-1221{2} [2C]	50	226172.8										
Aroclor-1221{3}	50	96479.2										
Aroclor-1221{3} [2C]	50	156360.2										
Aroclor-1221{4}	50	433043.2										
Aroclor-1221{4} [2C]	50	545992.8										
Aroclor-1221{5}	50	59988.36										
Aroclor-1221{5} [2C]	50	125831.5										
Aroclor-1232{1}			50	316758								
Aroclor-1232{1} [2C]			50	400962.6								
Aroclor-1232{2}			50	225561								
Aroclor-1232{2} [2C]			50	335247.4								
Aroclor-1232{3}			50	285282.8								
Aroclor-1232{3} [2C]			50	351087.6								
Aroclor-1232{4}			50	192028.9								
Aroclor-1232{4} [2C]			50	240175.6								
Aroclor-1232{5}			50	129553.8								
Aroclor-1232{5} [2C]			50	180123								
Aroclor-1242{1}					50	143820						
Aroclor-1242{1} [2C]					50	186095.7						
Aroclor-1242{2}					50	286096.4						
Aroclor-1242{2} [2C]					50	394589.4						
Aroclor-1242{3}					50	342929.6						
Aroclor-1242{3} [2C]					50	438497.8						
Aroclor-1242{4}					50	234113.8						
Aroclor-1242{4} [2C]					50	295635						
Aroclor-1242{5}					50	182956.2						
Aroclor-1242{5} [2C]					50	238939.2						
Aroclor-1248{1}							50	338190.8				
Aroclor-1248{1} [2C]							50	491841.8				

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Le	evel 07	Le	evel 08	Le	evel 09	L	evel 10	Le	evel 11	Level 12	
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1248{2}							50	444846				
Aroclor-1248{2} [2C]							50	603202.8				
Aroclor-1248{3}							50	251369.2				
Aroclor-1248{3} [2C]							50	325640.4				
Aroclor-1248{4}							50	492573.2				
Aroclor-1248{4} [2C]							50	632091.6				
Aroclor-1248{5}							50	242358				
Aroclor-1248{5} [2C]							50	302475.4				
Aroclor-1254{1}	50	430212										
Aroclor-1254{1} [2C]	50	682960.2										
Aroclor-1254{2}	50	627298.2										
Aroclor-1254{2} [2C]	50	794484.6										
Aroclor-1254{3}	50	442914.2										
Aroclor-1254{3} [2C]	50	552104										
Aroclor-1254{4}	50	764233.8										
Aroclor-1254{4} [2C]	50	1009289										
Aroclor-1254{5}	50	519715										
Aroclor-1254{5} [2C]	50	452172.2										
Aroclor-1260{1}												
Aroclor-1260{1} [2C]												
Aroclor-1260{2}												
Aroclor-1260{2} [2C]												
Aroclor-1260{3}												
Aroclor-1260{3} [2C]												
Aroclor-1260{4}												
Aroclor-1260{4} [2C]												
Aroclor-1260{5}												
Aroclor-1260{5} [2C]												
Aroclor-1262{1}									50	447826		
Aroclor-1262{1} [2C]									50	630612.6		

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	L	evel 07	Le	evel 08	Le	evel 09	Le	evel 10	Le	evel 11	Le	evel 12
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1262{2}									50	603180.6		
Aroclor-1262{2} [2C]									50	724671.1		
Aroclor-1262{3}									50	683276.9		
Aroclor-1262{3} [2C]									50	380832.6		
Aroclor-1262{4}									50	600515.6		
Aroclor-1262{4} [2C]									50	866562		
Aroclor-1262{5}									50	1168696		
Aroclor-1262{5} [2C]									50	1667324		
Aroclor-1268{1}											50	1294797
Aroclor-1268{1} [2C]											50	1943574
Aroclor-1268{2}											50	1241666
Aroclor-1268{2} [2C]											50	1885616
Aroclor-1268{3}											50	1028872
Aroclor-1268{3} [2C]											50	1581801
Aroclor-1268{4}											50	442752
Aroclor-1268{4} [2C]											50	686694.4
Aroclor-1268{5}											50	1428800
Aroclor-1268{5} [2C]											50	2535224
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

EPA TO-10A

Laboratory: EMSL-CIN-01

Calibration:

Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75]

AA40009

Instrument: GCECD-L

Calibration Date:

Project:

1/16/2024 12:00:54AM

NCSUPH

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Aroclor-1016	452782.9	8.8			20	
Aroclor-1016 [2C]	589326.3	8.0			20	
Aroclor-1221		0.0			20	
Aroclor-1221 [2C]		0.0			20	
Aroclor-1232		0.0			20	
Aroclor-1232 [2C]		0.0			20	
Aroclor-1242		0.0			20	
Aroclor-1242 [2C]		0.0			20	
Aroclor-1248		0.0			20	
Aroclor-1248 [2C]		0.0			20	
Aroclor-1254		0.0			20	
Aroclor-1254 [2C]		0.0			20	
Aroclor-1260	716308	8.3			20	
Aroclor-1260 [2C]	915129.4	7.0			20	
Aroclor-1262		0.0			20	
Aroclor-1262 [2C]		0.0			20	
Aroclor-1268		0.0			20	
Aroclor-1268 [2C]		0.0			20	
Aroclor-1016{1}	269402.5	6.7			20	
Aroclor-1016{1} [2C]	353392.1	5.5			20	
Aroclor-1016{2}	538257.8	11.1			20	
Aroclor-1016{2} [2C]	775330.9	8.6			20	
Aroclor-1016{3}	654849.5	9.7			20	
Aroclor-1016{3} [2C]	882207.3	8.9			20	
Aroclor-1016{4}	456320.7	9.2			20	
Aroclor-1016{4} [2C]	590617.2	7.7			20	
Aroclor-1016{5}	345084	9.8			20	
Aroclor-1016{5} [2C]	484393.1	8.0			20	
Aroclor-1221{1}		0.0			20	
Aroclor-1221{1} [2C]		0.0			20	
Aroclor-1221{2}		0.0			Page 5	56 of 1

EPA TO-10A

Laboratory: EMSL-CIN-01

Geosyntec Consultants of NC [GSCH75]

Calibration: AA40009

Client:

Work Order: AC15354

Project: NCSUPH

Instrument: GCECD-L

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Aroclor-1221{2} [2C]		0.0			20	
Aroclor-1221{3}		0.0			20	
Aroclor-1221{3} [2C]		0.0			20	
Aroclor-1221{4}		0.0			20	
Aroclor-1221{4} [2C]		0.0			20	
Aroclor-1221{5}		0.0			20	
Aroclor-1221{5} [2C]		0.0			20	
Aroclor-1232{1}		0.0			20	
Aroclor-1232{1} [2C]		0.0			20	
Aroclor-1232{2}		0.0			20	
Aroclor-1232{2} [2C]		0.0			20	
Aroclor-1232{3}		0.0			20	
Aroclor-1232{3} [2C]		0.0			20	
Aroclor-1232{4}		0.0			20	
Aroclor-1232{4} [2C]		0.0			20	
Aroclor-1232{5}		0.0			20	
Aroclor-1232{5} [2C]		0.0			20	
Aroclor-1242{1}		0.0			20	
Aroclor-1242{1} [2C]		0.0			20	
Aroclor-1242{2}		0.0			20	
Aroclor-1242{2} [2C]		0.0			20	
Aroclor-1242{3}		0.0			20	
Aroclor-1242{3} [2C]		0.0			20	
Aroclor-1242{4}		0.0			20	
Aroclor-1242{4} [2C]		0.0			20	
Aroclor-1242{5}		0.0			20	
Aroclor-1242{5} [2C]		0.0			20	
Aroclor-1248{1}		0.0			20	
Aroclor-1248{1} [2C]		0.0			20	
Aroclor-1248{2}		0.0			20	
Aroclor-1248{2} [2C]		0.0			Page 5	57 of 1

EPA TO-10A

Laboratory: EMSL-CIN-01

Geosyntec Consultants of NC [GSCH75]

Calibration: AA40009

Client:

Work Order: AC15354

Project: NCSUPH

Instrument: GCECD-L

Aroclor-1248{3} 0.0 Aroclor-1248{3} [2C] 0.0 Aroclor-1248{4} 0.0 Aroclor-1248{4} [2C] 0.0 Aroclor-1248{5} 0.0 Aroclor-1248{5} [2C] 0.0 Aroclor-1254{1} 0.0 Aroclor-1254{1} [2C] 0.0 Aroclor-1254{2} 0.0 Aroclor-1254{2} [2C] 0.0	20 20 20 20 20 20 20 20 20 20 20
Aroclor-1248{4}0.0Aroclor-1248{4} [2C]0.0Aroclor-1248{5}0.0Aroclor-1248{5} [2C]0.0Aroclor-1254{1}0.0Aroclor-1254{1} [2C]0.0Aroclor-1254{2}0.0	20 20 20 20 20 20 20 20
Aroclor-1248{4} [2C] 0.0 Aroclor-1248{5} 0.0 Aroclor-1248{5} [2C] 0.0 Aroclor-1254{1} 0.0 Aroclor-1254{1} [2C] 0.0 Aroclor-1254{2} 0.0	20 20 20 20 20 20 20
Aroclor-1248{5} 0.0 Aroclor-1248{5} [2C] 0.0 Aroclor-1254{1} 0.0 Aroclor-1254{1} [2C] 0.0 Aroclor-1254{2} 0.0	20 20 20 20 20 20
Aroclor-1248{5} [2C] 0.0 Aroclor-1254{1} 0.0 Aroclor-1254{1} [2C] 0.0 Aroclor-1254{2} 0.0	20 20 20 20
Aroclor-1254{1} 0.0 Aroclor-1254{1} [2C] 0.0 Aroclor-1254{2} 0.0	20 20 20
Aroclor-1254{1} [2C] 0.0 Aroclor-1254{2} 0.0	20 20
Aroclor-1254{2} 0.0	20
• •	
Aroclor-1254{2} [2C] 0.0	20
C 7 L - 2	20
Aroclor-1254{3} 0.0	20
Aroclor-1254{3} [2C] 0.0	20
Aroclor-1254{4} 0.0	20
Aroclor-1254{4} [2C] 0.0	20
Aroclor-1254{5} 0.0	20
Aroclor-1254{5} [2C] 0.0	20
Aroclor-1260{1} 557931.8 9.6	20
Aroclor-1260{1} [2C] 787849.5 9.2	20
Aroclor-1260{2} 838605.3 10.8	20
Aroclor-1260{2} [2C] 918832 7.6	20
Aroclor-1260{3} 686896.6 8.4	20
Aroclor-1260{3} [2C] 659353.2 5.6	20
Aroclor-1260{4} 471689.8 7.0	20
Aroclor-1260{4} [2C] 695344.7 8.2	20
Aroclor-1260{5} 1026417 6.9	20
Aroclor-1260{5} [2C] 1514267 6.6	20
Aroclor-1262{1} 0.0	20
Aroclor-1262{1} [2C] 0.0	20
Aroclor-1262{2} 0.0	20
Aroclor-1262{2} [2C] 0.0	20
Aroclor-1262{3} 0.0	Page 58 of 171

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01

Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75]

NCSUPH

Calibration: AA40009

Instrument: GCECD-L

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Aroclor-1262{3} [2C]		0.0			20	
Aroclor-1262{4}		0.0			20	
Aroclor-1262{4} [2C]		0.0			20	
Aroclor-1262{5}		0.0			20	
Aroclor-1262{5} [2C]		0.0			20	
Aroclor-1268{1}		0.0			20	
Aroclor-1268{1} [2C]		0.0			20	
Aroclor-1268{2}		0.0			20	
Aroclor-1268{2} [2C]		0.0			20	
Aroclor-1268{3}		0.0			20	
Aroclor-1268{3} [2C]		0.0			20	
Aroclor-1268{4}		0.0			20	
Aroclor-1268{4} [2C]		0.0			20	
Aroclor-1268{5}		0.0			20	
Aroclor-1268{5} [2C]		0.0			20	
Tetrachloro-m-xylene	1.269474E+07	8.1			20	
Tetrachloro-m-xylene [2C]	1.658307E+07	5.2			20	
Decachlorobiphenyl	8363450	6.6			20	
Decachlorobiphenyl [2C]	1.511362E+07	8.4			20	

INITIAL CALIBRATION STANDARDS

EPA TO-10A

Laboratory: EMSL-CIN-01

Geosyntec Consultants of NC [GSCH75]

Sequence: SCA0465

Client:

Calibration: AA40009

Work Order: AC15354

Project: NCSUPH

Instrument: GCECD-L

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24A0635	1660 Cal Std 5ug/L	SCA0465-CAL1	L13618.D	01/16/24 20:11
24A0634	1660 Cal Std 10ug/L	SCA0465-CAL2	L13619.D	01/16/24 20:28
24A0633	1660 Cal Std 25ug/L	SCA0465-CAL3	L13620.D	01/16/24 20:44
24A0056	1660 Cal Std 50ug/L	SCA0465-CAL4	L13621.D	01/16/24 21:00
24A0055	1660 Cal Std 100ug/L	SCA0465-CAL5	L13622.D	01/16/24 21:16
24A0054	1660 Cal Std 250ug/L	SCA0465-CAL6	L13623.D	01/16/24 21:32
2310241	Aroclor 2154 50 ug/L	SCA0465-CAL7	L13626.D	01/16/24 22:21
2310242	Aroclor 1232 50 ug/L	SCA0465-CAL8	L13627.D	01/16/24 22:37
2310243	Aroclor 1242 50 ug/L	SCA0465-CAL9	L13628.D	01/16/24 22:53
2310244	Aroclor 1248 50 ug/L	SCA0465-CALA	L13629.D	01/16/24 23:09
2310245	Aroclor 1262 50 ug/L	SCA0465-CALB	L13630.D	01/16/24 23:25
2310246	Aroclor 1268 50 ug/L	SCA0465-CALC	L13631.D	01/16/24 23:41

Method Path : T:\METHODS\ECD-L\
Method File : PCB240116L.M

Title : 8082a PCB

Last Update : Tue May 14 14:39:44 2024 Response Via : Initial Calibration

Calibration Files

5 =L13618.D 10 =L13619.D = 250 =L13623.D 100 =L13622.D 50 =L14604.D

	Compound	5	10	250	100	50	Avg	%RSD
1) SF 2) SF 3) L1 4) L1 5) L1 6) L2 10) L2 11) L2 12) L3 14) L3 15) L3 17) L3 18) L4 19) L4 20) L4 21) L4 22) L4 22) L4 23) L5 24) L5 24) L5 27) L5 28) L6 33) L6 33) L6 33) L6 33) L6 33) L6 34) L7 35) L9 36) L9 37) L9 38) L6 39) L6 31) L6 32) L6 33) L6 33) L6 34) L7 35) L6 37) L6 37) L6 38) L6 39) L6 31) L6 32) L6 33) L6 34) L7 35) L6 37) L6 37) L6 38) L6 37) L6 38) L6 39) L6 31) L6 32) L6 33) L6 34) L7 35) L6 37) L6 37) L6 38) L6 37) L7 37) L7 37) L7 37) L7 37) L7 37) L7 37) L8 37) L8 38)	A Decachlorobip Aroclor-1016{1} Aroclor-1016{2} Aroclor-1016{3} Aroclor-1016{4} Aroclor-1016{5} Aroclor-121{1} Aroclor-1221{1} Aroclor-1221{2} Aroclor-1221{3} Aroclor-1221{4} Aroclor-1221{5} Aroclor-1232{1} Aroclor-1232{1} Aroclor-1232{3} Aroclor-1232{3} Aroclor-1232{3} Aroclor-1232{5} Aroclor-1242{1} Aroclor-1242{2} Aroclor-1242{3} Aroclor-1242{3} Aroclor-1242{3} Aroclor-1242{3} Aroclor-1242{4} Aroclor-1242{3} Aroclor-1248{3} Aroclor-1248{3} Aroclor-1248{3} Aroclor-1248{4} Aroclor-1254{1} Aroclor-1254{1} Aroclor-1254{3} Aroclor-1254{3} Aroclor-1254{3} Aroclor-1262{1} Aroclor-1262{1} Aroclor-1262{3} Aroclor-1262{3} Aroclor-1262{3} Aroclor-1262{4} Aroclor-1262{3} Aroclor-1268{1} Aroclor-1268{1} Aroclor-1268{1} Aroclor-1268{5} Aroclor-1260{3} Aroclor-1260{5} Aroclor-1260{5}	8.980 2.546 6.089 7.397 5.137 3.617	8.709 7.38	7 5.262 7 7 5.262 7 7 906 7 6.449 7 4 4.662	8.433 3.015 5.556 6.587 4.670 3.604 1.429 1.681 9.648 4.330 5.999 3.168 2.256 2.853 1.9296 1.243 1.926 2.341 1.830 3.382 4.448 2.514 4.926 2.424 4.302 6.273 4.429 7.642 5.197 4.478 6.033 6.0169 5.1294 1.294 1.295 1.295 1.295 1.296 1.295 1.296 1.2	5.715 8.461 7.060 4.629 3.597	8.363 E 6 2.694 E 5 3.838 E 5 5.383 E 5 6.548 E 5 5.383 E 5 6.548 E 6 4.563 E 5 1.429 E 5 2.853 E 5 2.853 E 5 2.853 E 5 2.853 E 5 2.853 E 5 2.853 E 5 3.168 E 5 2.853 E 5 2.853 E 5 3.429 E 5 3.869 E 5	6.55 6.73 11.07 9.73 9.21 9.76 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Signal 5 250	#2 Calibration Fil =L13618.D 10 =L13623.D 100	=]	L13619.D L14014.D	50	= =L14	604.D		
	Compound	5	10	250	100	50 2	Avg 	%RSD
1) SA 2) SA 3) L1 4) L1 5) L1 6) L1 7) L1	A Decachlorobip 1 Aroclor-1016{1} 1 Aroclor-1016{2} 1 Aroclor-1016{3} 1 Aroclor-1016{4} 1 Aroclor-1016{5}	1.630 3.659 8.445 9.815 6.523	1.638 1.29 3.588 3.16 8.437 6.67 9.333 7.64	4 1.454 1 3.497 0 7.438 6 8.223 6 5.738	1.519 3.662 7.787 8.831 5.900	1.533 3.637 7.743 9.085 5.911 4.902	1.511 E7 3.534 E5 7.753 E5 8.822 E5 5.906 E5	8.44 5.46 8.59 8.86 7.73 7.99

1.523 1.523 E5 0.00

8) L2 Aroclor-1221{1}

Method Path : T:\METHODS\ECD-L\
Method File : PCB240116L.M

Title : 8082a PCB

Last Update : Tue May 14 14:39:44 2024 Response Via : Initial Calibration

Calibration Files
5 = L13618.D 10 = L13619.D =
250 = L13623.D 100 = L13622.D 50 = L14604.D

		Compound	5	10		250	100	50	Avg		%RSD
9)	L2	Aroclor-1221{2}					2.262		2.262	E5	0.00
10)	L2	Aroclor-1221{3}					1.564		1.564		0.00
11)	L2	Aroclor-1221{4}					5.460		5.460		0.00
12)	L2	Aroclor-1221{5}					1.258		1.258		0.00
13)	L3	Aroclor-1232{1}					4.010		4.010		0.00
14)	L3	Aroclor-1232{2}					3.352		3.352		0.00
15)	L3	Aroclor-1232{3}					3.511		3.511		0.00
16)	L3	Aroclor-1232{4}					2.402		2.402		0.00
17)	L3	Aroclor-1232{5}					1.801		1.801		0.00
18)	L4	Aroclor-1242{1}					1.861		1.861		0.00
19)	L4	Aroclor-1242{2}					3.946		3.946		0.00
20)		Aroclor-1242{3}					4.385		4.385		0.00
21)	L4	Aroclor-1242{4}					2.956		2.956		0.00
22)	L4	Aroclor-1242{5}					2.389		2.389		0.00
23)	L5	Aroclor-1248{1}					4.918		4.918		0.00
24)	L5	Aroclor-1248{2}					6.032		6.032		0.00
25) 26)	L5 L5	Aroclor-1248{3}					3.256 6.321		3.256 6.321		0.00
27)	ь5 Ь5	Aroclor-1248{4} Aroclor-1248{5}					3.025		3.025		0.00
28)	ь5 L6	Aroclor-1254{1}					6.830		6.830		0.00
29)	L6	Aroclor-1254{2}					7.945		7.945		0.00
30)	L6	Aroclor-1254{3}					5.521		5.521		0.00
31)	L6	Aroclor-1254{4}					1.009		1.009		0.00
32)	L6	Aroclor-1254(5)					4.522		4.522		0.00
33)	L7	Aroclor-1262{1}					6.306		6.306		0.00
34)	L7	Aroclor-1262{2}					7.247		7.247		0.00
35)	L7	Aroclor-1262{3}					3.808		3.808		0.00
36)	L7	Aroclor-1262{4}					8.666		8.666		0.00
37)		Aroclor-1262{5}					1.667		1.667		0.00
38)	L8	Aroclor-1268{1}					1.944		1.944		0.00
39)	L8	Aroclor-1268{2}					1.886		1.886	E6	0.00
40)	L8	Aroclor-1268{3}					1.582		1.582	E6	0.00
41)	L8	Aroclor-1268{4}					6.867		6.867	E5	0.00
42)	L8	Aroclor-1268{5}					2.535		2.535	E6	0.00
43)	L9	Aroclor-1260{1}							7.878		9.19
44)	L9	Aroclor-1260{2}							9.188		7.59
45)	L9	Aroclor-1260{3}							6.594		5.57
46)	L9	Aroclor-1260{4}									8.23
47)	L9 	Aroclor-1260{5}		1.547 	1.358	1.458	1.492	1.633	1.514 	E6	6.62
(#)	= 0	out of Range ###	Numbe	r of ca	alibrat	tion le	evels (exceed	ed form	nat	###

Data File : L13618.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:11 pm

Operator : TL1 Sample : SEQ-CAL1

Misc

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:32:03 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	compound		"-	1.001 " 1	11001 112	۵9/ ــ	۵9/ ــ
1) SA Spiked 2) SA	em Monitoring Tetrachlo A Amount Decachlor A Amount	3.534 10.000 Range 10.908f	60 - 12 12.519f	20 Recove 4490050	8152498	0.602m	0.617 6.17%# 0.617m 6.17%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.937 4.368f 4.953f 5.123f 5.654f	4.811 5.362f 6.012f 6.197f 6.853f	3044675 3698426 2568470 1808281	4222457 4907315 3261353	5.764m 6.687m 6.623m 6.537m 6.068m 31.680 6.336	
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.294 7.673 8.057 8.555 8.981f	8.639 8.931 9.567 9.990 10.339f	2985980 4863152 3680315 2515662 5480547 19525656	4919789 3248860 3784590	6.034m 6.417m 6.116m 6.045m 5.974m 30.586 6.117	6.548m 6.067m 5.773m 6.159m 6.185m 30.733 6.147

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13618.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:11 pm

Operator : TL1
Sample : SEQ-CAL1

Misc :

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 12:32:03 2024

Quant Method : T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update : Tue Jan 02 09:10:57 2024

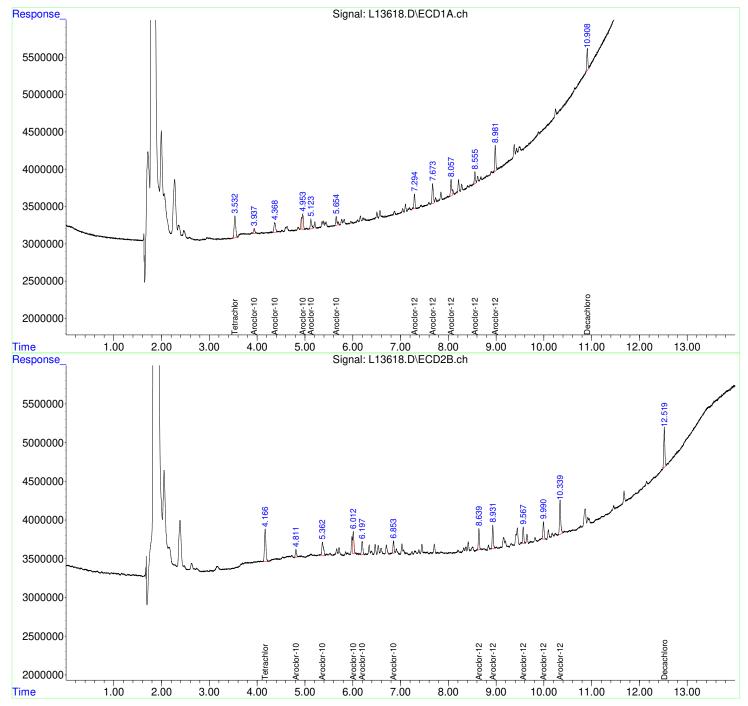
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13619.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:28 pm

Operator : TL1

Sample : SEQ-CAL2

Misc :

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:38:29 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

Sum Aroclor-1242 0 0 N.D. N.D. Average Aroclor-1248 0 0 N.D. N.D. Average Aroclor-1248 0 0 N.D. N.D. Average Aroclor-1254 0 0 N.D. N.D. Average Aroclor-1254 0 0 N.D. N.D. Average Aroclor-1262 0 0 N.D. N.D. Average Aroclor-1268 0 0 N.D. N.D. Average Aroclor-1 7.671 8.928 880455		Compound	17.11.1	N1#2	ve2b#I	Kesp#2	ug/ ь	ug/ Li
3) L1 Arcclor-1 3.936f 4.811 2703211 3588002 12.243m 11.827m 4) L1 Arcclor-1 4.369 5.366 5843477 8436677 12.834m 12.852m 5) L1 Arcclor-1 4.954f 6.011f 7054536 9333191 12.633m 12.645m 6) L1 Arcclor-1 5.124f 6.198f 4694863 6199592 11.949m 12.444m 7) L1 Arcclor-1 5.654f 6.855f 3785629 5346718 12.703m 12.745m Sum Arcclor-1016 24081716 32904181 62.362 62.513 Average Arcclor-1221 0 0 N.D. N.D. Average Arcclor-1221 0 0 N.D. N.D. Average Arcclor-1232 0 0 N.D. N.D. Average Arcclor-1232 0 0 N.D. N.D. Average Arcclor-1242 0 0 N.D. N.D. Average Arcclor-1242 0 0 N.D. N.D. Average Arcclor-1248 0 0 N.D. N.D. Average Arcclor-1248 0 0 N.D. N.D. Average Arcclor-1254 0 0 N.D. N.D. Average Arcclor-1262 0 0 N.D. N.D. Average Arcclor-1262 0 0 N.D. N.D. Average Arcclor-1262 0 0 N.D. N.D. Average Arcclor-1268 0 0 N.D. N.D. Average Arcclor-1268 0 0 N.D. N.D. Average Arcclor-1268 0 0 N.D. N.D. Average Arcclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 40 19 Arcclor-1 7.671 8.928 8804553 9782889 11.618m 12.054m 44 19 Arcclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 45 19 Arcclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 46 19 Arcclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47 19 Arcclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47 19 Arcclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47 19 Arcclor-1 8.956 9.989 5016667 7446194 12.055m 12.119m 47 19 Arcclor-1 8.956 9.989 5016667 7446194 12.055m 12.119m 48 10.985 10.338f 10914982 15467462 11.898m 11.977m 5000 5000 5000 5000 5000 5000 5000 5000	1) SA Spiked 2) SA	Tetrachlo d Amount Decachlor	3.536 10.000 Range 10.908f	60 - 12 12.521f	20 Recove 8709110	ery = 16383652	11.97%# 1.167	12.18%# 1.240
Average Aroclor-1221 Sum Aroclor-1232 Average Aroclor-1232 Num Aroclor-1232 Sum Aroclor-1242 Average Aroclor-1242 Average Aroclor-1242 Average Aroclor-1248 Average Aroclor-1248 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1262 Sum Aroclor-1262 Average Aroclor-1262 Average Aroclor-1268 Average Aroclor-12	3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016	4.369 4.954f 5.124f	5.366 6.011f 6.198f	5843477 7054536 4694863 3785629	8436677 9333191 6199592 5346718	12.834m 12.633m 11.949m 12.703m 62.362	12.852m 12.645m 12.444m 12.745m 62.513
Average Aroclor-1232					0	0		
Average Aroclor-1242 0.000 0.000 Sum Aroclor-1248 0 0 N.D. N.D. Average Aroclor-1248 0 0 N.D. N.D. Sum Aroclor-1254 0 0 N.D. N.D. Average Aroclor-1262 0 0 N.D. N.D. Average Aroclor-1268 0 0 0 N.D. N.D. Average Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 44) L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.573m					0	0		
Average Aroclor-1248 Sum Aroclor-1254 Average Aroclor-1254 O O N.D. N.D. O.000 Sum Aroclor-1262 Average Aroclor-1262 O O N.D. N.D. Average Aroclor-1262 O O O N.D. N.D. Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 44) L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.064m 45) L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 46) L9 Aroclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47) L9 Aroclor-1 8.983f 10.338f 10914982 15467462 11.898m 11.977m Sum Aroclor-1260					0	0		
Average Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.292 44) L9 Aroclor-1 7.671 45) L9 Aroclor-1 7.671 48.928 48.04553 48.04563 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48					0	0		
Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 12.431m 12.431m 12.431m 13.224m 12.431m 13.224m 12.431m 13.224m 12.431m 12.					0	0		
Average Aroclor-1268 43) L9 Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 44) L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.064m 45) L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 46) L9 Aroclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47) L9 Aroclor-1 8.983f 10.338f 10914982 15467462 11.898m 11.977m Sum Aroclor-1260 38276867 48385714 60.281 61.957					0	0		
44) L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.064m 45) L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 46) L9 Aroclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47) L9 Aroclor-1 8.983f 10.338f 10914982 15467462 11.898m 11.977m Sum Aroclor-1260 38276867 48385714 60.281 61.957					0	0		
	44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260	7.671 8.057 8.556	8.928 9.568 9.989	8804553 7389477 5016667 10914982	9782889 7074987 7446194 15467462	11.618m 12.279m 12.055m 11.898m 60.281	12.064m 12.573m 12.119m 11.977m 61.957

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13619.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:28 pm

Operator : TL1 Sample : SEQ-CAL2

Misc :

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 12:38:29 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

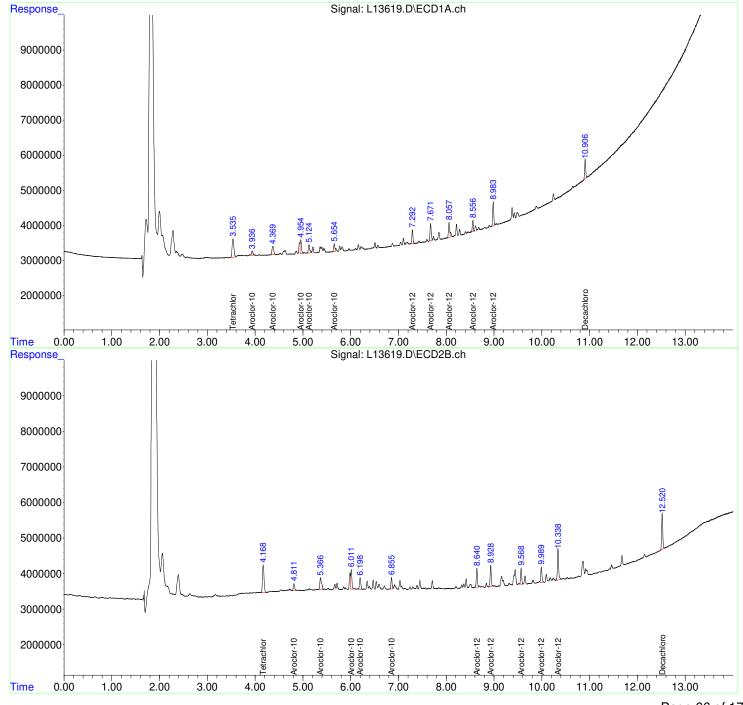
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13620.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:44 pm

Operator : TL1

Sample : SEQ-CAL3

Misc :

ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:42:38 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

 ${\tt Response \ via : Initial \ Calibration}$

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

	compound	1(1 1	"-	11000111	11001 11 12	۵9/ ــ	ug/ <u>n</u>
1) SA Spiked 2) SA	em Monitoring Tetrachlo d Amount Decachlor d Amount	3.532f 10.000 Range 10.910f	60 - 12 12.521f	21153145	ery = 38316575	28.28%# 2.835	2.881 28.81%# 2.901 29.01%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016		6.012f 6.198f	13350897 16015684 11571518 8992616	19357593 22711451 14777645	29.892 29.323 28.680 29.452 30.176m 147.522 29.504	29.970 29.489 30.770 29.663m 29.209 149.101 29.820
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.293 7.672 8.059 8.557 8.985f	8.930 9.569 9.991	14287910 21152882 17650253 11425150 25778441 90294636	23590870 16746300 17673953	28.874m 27.912m 29.330m 27.455m 28.100m 141.671 28.334	29.092m 29.759m 28.765m 31.619m

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13620.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:44 pm

Operator : TL1 Sample : SEQ-CAL3

Misc :

ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 12:42:38 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

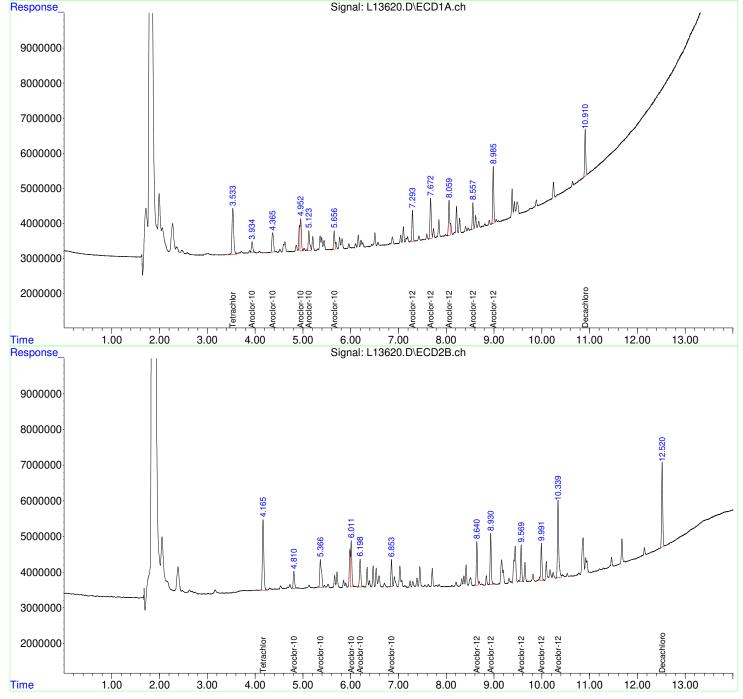
QLast Update: Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II



Data File : L13621.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 9:00 pm

Operator : TL1 Sample : SEQ-CAL4

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:47:23 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

	compound	1(1 1	1(1 2	1.001 " 1	11001 11 12	۵9/ ــ	49/1
1) SA Spiked 2) SA	em Monitoring Tetrachlo d Amount Decachlor d Amount	3.538 10.000 Range 10.909f	60 - 1: 12.520f	42167337	ery = 75943898	55.48%# 5.651	5.899 58.99%# 5.750 57.50%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016		6.200	27777653 32936899 23350985 18018006	29498704	61.008m 58.982 59.433m	59.820 59.211m 57.719m
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.294 7.673 8.059 8.556 8.984f	9.568 9.991	42091931 35241070	33649740 34927485	57.674 55.542 58.562m 58.355m 56.633m 286.766 57.353	56.991 59.798 56.845m 57.765

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13621.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 9:00 pm

Operator : TL1 : SEQ-CAL4

Sample

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 12:47:23 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

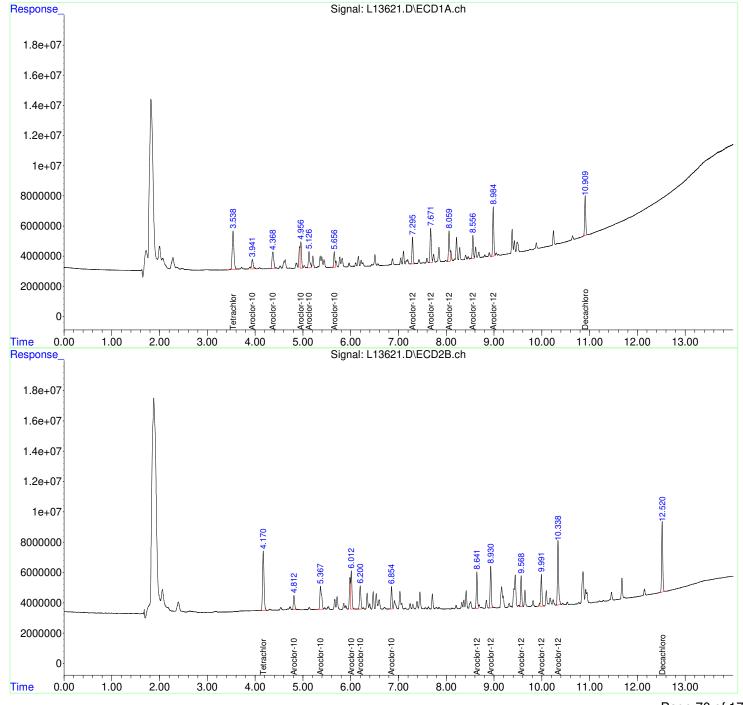
QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



Data File : L13622.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 9:16 pm

Operator : TL1

Sample : SEQ-CAL5

Misc :

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:50:12 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	Decachlor	3.531f .000 Range	4.166 60 - 12 12.520f 60 - 12	20 Recove 82159738	ery = 1 $145.4E6$	10.490 104.90% 11.010	11.272 112.72% 11.006 110.06%
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1	3.936f 4.367f 4.953f 5.124f 5.655f	6.012f 6.199f	27498087 50396955 62766312 43845705 32296086 216.8E6	82234589 57382054	124.538 110.688m 112.398 111.597 108.374m 567.595 113.519	111.415m 115.181m
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.293 7.672 8.057 8.555 8.984f	8.640 8.929 9.568 9.991 10.339f	79057804	66018591	106.344 104.320 107.161m 112.028m 108.419m 538.272 107.654	108.255m

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13622.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 9:16 pm

Operator : TL1
Sample : SEQ-CAL5

Misc

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 12:50:12 2024

Quant Method : T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

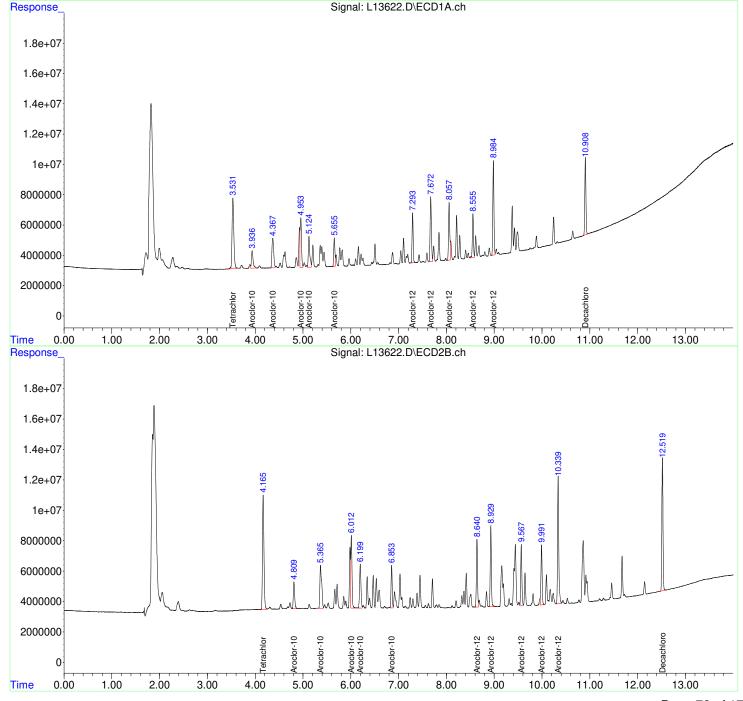
QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



Data File : L13623.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 9:32 pm

Operator : TL1
Sample : SEQ-CAL6

Misc :

ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:54:02 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	d Amount 1 Decachlor	3.534 0.000 Range	60 - 12 12.520f	20 Recove 184.5E6	ery = 3 323.5E6	24.727	26.782 267.82%# 24.494 244.94%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.938 4.367f 4.954f 5.124f 5.654f		62774280 110.7E6 139.2E6 96601684 71814751 481.1E6	106.2E6	249.330 245.873	260.456m 254.024 258.976 259.224 253.186 1285.866 257.173
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.293 7.672 8.058 8.555 8.984f	8.640 8.928 9.568 9.991 10.338f	116.7E6 175.0E6 147.7E6 104.1E6 226.5E6 770.0E6	166.8E6 199.3E6 149.0E6 150.0E6 339.4E6 1004.5E6	230.924 245.385m 250.201m	244.072m

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13623.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 9:32 pm

Operator : TL1 Sample : SEQ-CAL6

Misc

: 7 ALS Vial Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:54:02 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

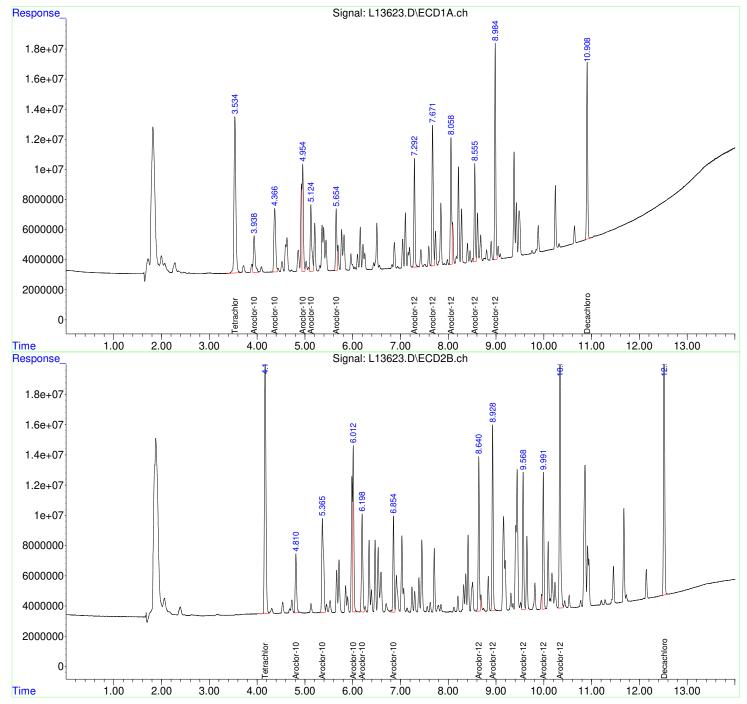
QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25



Data File : L13626.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:21 pm

Operator : TL1

Sample : SEQ-CAL7

Misc

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:05:21 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	

St	rget Compounds um Aroclor-1016 ge Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1	2.963f 3.716f 3.887f 3.937f 4.368f	3.556f 4.533f 4.723f 4.810f 5.358f	8403769 4823960 21652161 2999418	7613736 11308644 7818012 27299642 6291573 60331607	68.179m 59.186m 60.594m 59.517m 61.879m 309.354 61.871	56.085m 56.477m 56.063m 57.716m 62.033m 288.374 57.675
	um Aroclor-1232 ge Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	um Aroclor-1242 ge Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	um Aroclor-1248 ge Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1	6.158f 6.505f 6.879f 7.045f 7.674f	7.707f 8.201f 8.366f	21510599 31364914 22145710 38211692 25985753 139.2E6	39724229 27605200 50464460	55.339m 56.846m 56.276m 57.508m 55.931m 281.900 56.380	55.482m 57.980m 55.518m 56.927m 55.504m 281.411 56.282
	um Aroclor-1262 ge Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	nm Aroclor-1268 ge Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	mm Aroclor-1260 ge Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13626.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:21 pm

Operator : TL1

Sample : SEQ-CAL7

Misc :

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:05:21 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

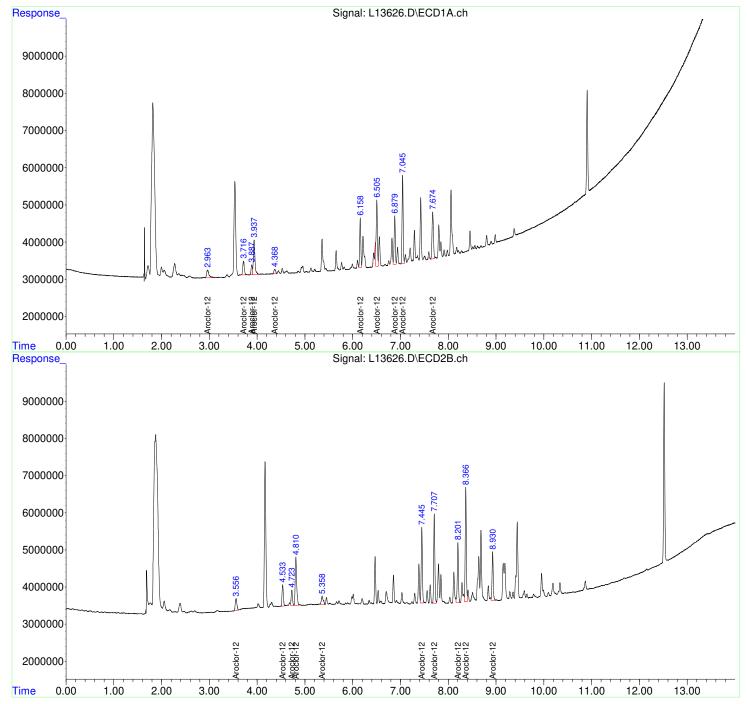
Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0 Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13627.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:37 pm Operator : TL1

Sample : SEQ-CAL8

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:11:26 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Signal #1 Info : 0.25

	Syste	em Monitoring	Compounds					
	Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
Ave		Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
14) 15) 16) 17)	L3 L3 L3 L3 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1232 Aroclor-1232	5.121f	5.363f 6.010f 6.197f	11278052 14264139 9601446 6477690	17554380 12008780	57.449m 58.174m 59.092m 55.091m	273.982
Ave		Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
Ave		Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
Ave		Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
Ave		Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
Ave		Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
Ave		Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13627.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 10:37 pm

Operator : TL1

: SEQ-CAL8 Sample

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 13:11:26 2024

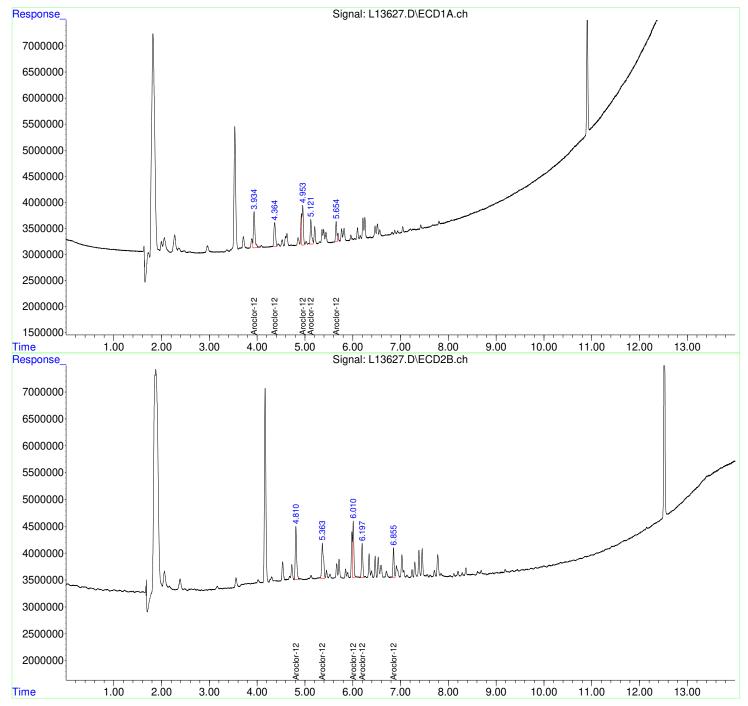
Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024

Response via : Initial Calibration Integrator: ChemStation

Volume Inj. Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13628.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:53 pm Operator : TL1

Sample : SEQ-CAL9

Misc

ALS Vial: 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:14:30 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Signal #1 Info : 0.25

Syste	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
19) L4 20) L4 21) L4 22) L4 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1242 Aroclor-1242	3.936f 4.367f 4.952f 5.123f 5.653f	6.011f 6.198f	14304819 17146482 11705688 9147812	19729467 21924886 14781752	60.187m 60.434m 59.232m 99.800m 60.298m 339.950 67.990	
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13628.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:53 pm

Operator : TL1 Sample : SEQ-CAL9

Misc :

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:14:30 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

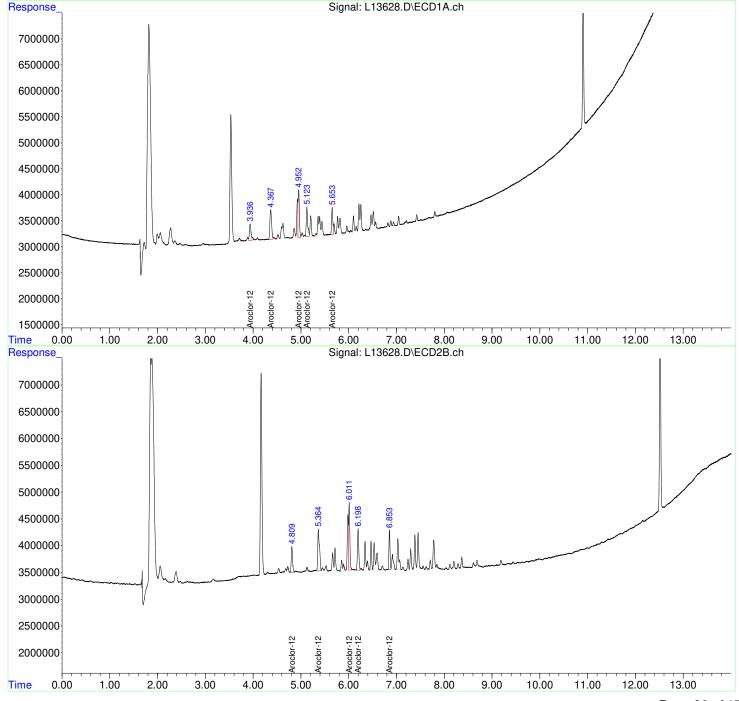
QLast Update: Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



Data File : L13629.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:09 pm Operator : TL1

Sample : SEQ-CALA

Misc

ALS Vial: 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:17:58 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Signal #1 Info : 0.25

Syste	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
24) L5 25) L5 26) L5 27) L5 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1.248 Aroclor-1248	5.359f 5.653f 6.099f 6.213f 7.045f	6.853f 7.297f 7.384f		30160137 16282017	55.084m 56.577m 54.119m 62.356m 52.772m 280.909 56.182	54.070m 50.824m 52.978m 52.007m
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13629.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:09 pm

Operator : TL1 Sample : SEQ-CALA

Misc :

ALS Vial: 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:17:58 2024

Quant lime: Jan 1/ 13:17:58 2024
Quant Method : T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

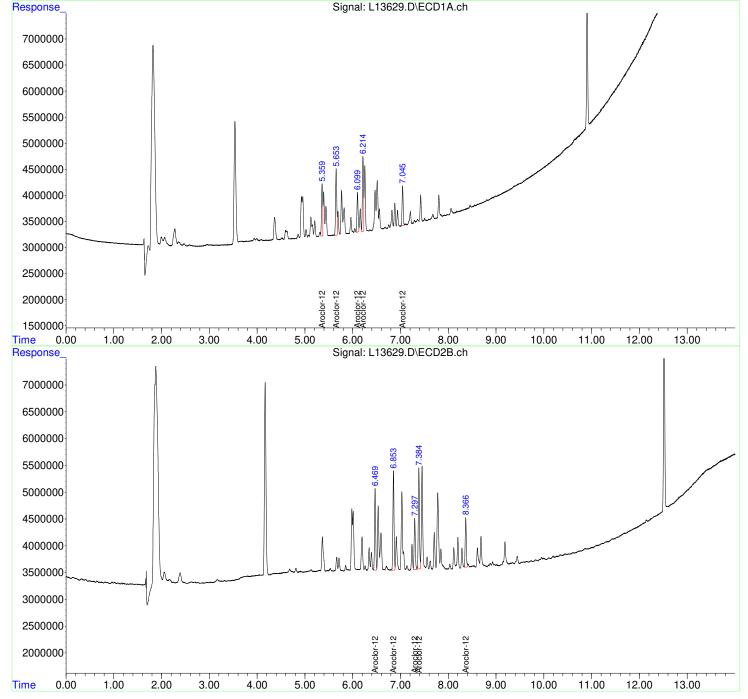
QLast Update: Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Data Path : T:\Data\ECD-L\L240116\

Data File : L13630.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:25 pm

Operator : TL1

Sample : SEQ-CALB

Misc

ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:22:14 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Compound

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Syste	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	
34) L7 35) L7 36) L7 37) L7 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1262 Aroclor-1262	7.670f 8.214f 8.555f	8.929f 9.646 9.991f	30159030 34163847 30025785 58434777	31530632 36233551 19041630 43328103 83366172 213.5E6	57.713m 56.848m	57.418m 23.110m# 57.769m 57.760m
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13630.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 11:25 pm

Operator : TL1 Sample : SEQ-CALB

Misc

ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:22:14 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

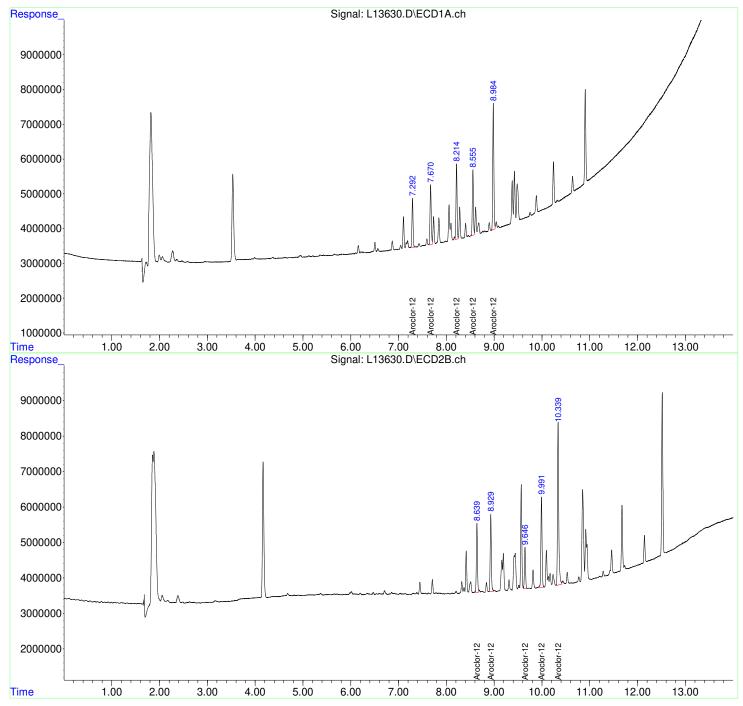
Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25



RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Data Path : T:\Data\ECD-L\L240116\

Data File : L13631.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:41 pm

Operator : TL1

Sample : SEQ-CALC

Misc

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:25:11 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Compound

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

Syste	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
39) L8 40) L8 41) L8 42) L8 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1268 Aroclor-1268	9.480f 9.750f 10.240f	10.917f 11.283f 11.676f	62083282 51443610 22137604	79090046 34334721 126.8E6	55.088m 56.121m 54.845m 54.416m	56.271m 55.995m 55.809m 55.103m
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13631.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 11:41 pm

Operator : TL1

Sample : SEQ-CALC

Misc

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:25:11 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

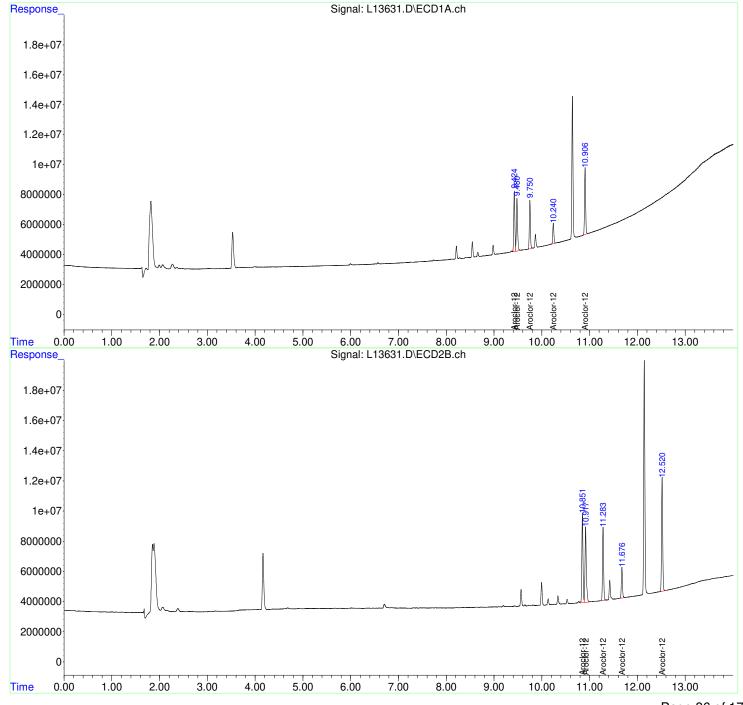
QLast Update: Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



7 - FORM VII

INITIAL CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

01/16/24 00:00

Instrument ID: GCECD-L Calibration: AA40009

Lab File ID: L13625.D

Sequence: SCA0465 01/16/24

Lab Sample ID: SCA0465-ICV1 Injection Date:

Injection Time: 22:04

Calibration Date:

		CONC. (μg/L)			PONSE FACTO	% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016	А	50.00	48.6	452782.9	437674.2		-2.8	20
Aroclor-1260	Α	50.00	46.6	716308	667207.2		-6.8	20
Tetrachloro-m-xylene	Α	5.000	4.67	1.269474E+07	1.186843E+07		-6.6	20
Decachlorobiphenyl	Α	5.000	4.64	8363450	7759872		-7.2	20

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 13:02:57 2024

Quant Method : T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Syst	em Monitoring	Compounds					
1) SA	Tetrachlo	3.534	4.168	59342150	78381099	4.675	4.727
Spike	ed Amount 1	0.000 Range				46.75%#	47.27%#
2) SA	Decachlor	10.908	12.520	38799363	70512983	4.639	4.666
Spike	ed Amount 1	0.000 Range	60 - 1	20 Recove	ery =	46.39%#	46.66%#
T							
	get Compounds	2 020	4 011	12050606	17401536	F1 446	10 106
•	Aroclor-1	3.939	4.811		17491536		49.496
	Aroclor-1	4.367	5.366		36139906		
	Aroclor-1	4.954	6.012		41331826	48.198	
	Aroclor-1	5.123		21647523			
	Aroclor-1	5.655	6.854	16465073			
	Aroclor-1016			109.466	144.8E6	242.885	
Average	Aroclor-1016					48.577	47.135
Sum	Aroclor-1221			0	0	N.D.	N.D.
Average	Aroclor-1221					0.000	0.000
C				0	0	N. D.	N. D.
	Aroclor-1232			0	0	N.D.	N.D.
Average	e Aroclor-1232					0.000	0.000
Sur	Aroclor-1242			0	0	N.D.	N.D.
Average	Aroclor-1242					0.000	0.000
Sum	n Aroclor-1248			0	0	N.D.	N.D.
	Aroclor-1248			0	0	0.000	0.000
Average	: AI UCIUI -1240					0.000	0.000
Sum	Aroclor-1254			0	0	N.D.	N.D.
Average	Aroclor-1254					0.000	0.000
Sum	n Aroclor-1262			0	0	N.D.	N.D.
	Aroclor-1262			·	•	0.000	0.000
_				_	_		
	Aroclor-1268			0	0	N.D.	N.D.
Average	Aroclor-1268					0.000	0.000
43) L9	Aroclor-1	7.293	8.639	26980059	38343729	48.357	48.669m
44) L9		7.671	8.929		43264591		
45) L9		8.058	9.568		31481769		
46) L9	Aroclor-1	8.556	9.991		33959169	46.588m	48.838
l '/							

8.982 10.338 48281346 69178793 47.039m 45.685

166.8E6 216.2E6 232.963 238.024

46.593

47.605

47) L9 Aroclor-1...

Average Aroclor-1260

Sum Aroclor-1260

Quantitation Report (QT Reviewed)

Data Path : Z:\Data\ECD-L\L240116\

Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method : T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\Data\ECD-L\L240116\

Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

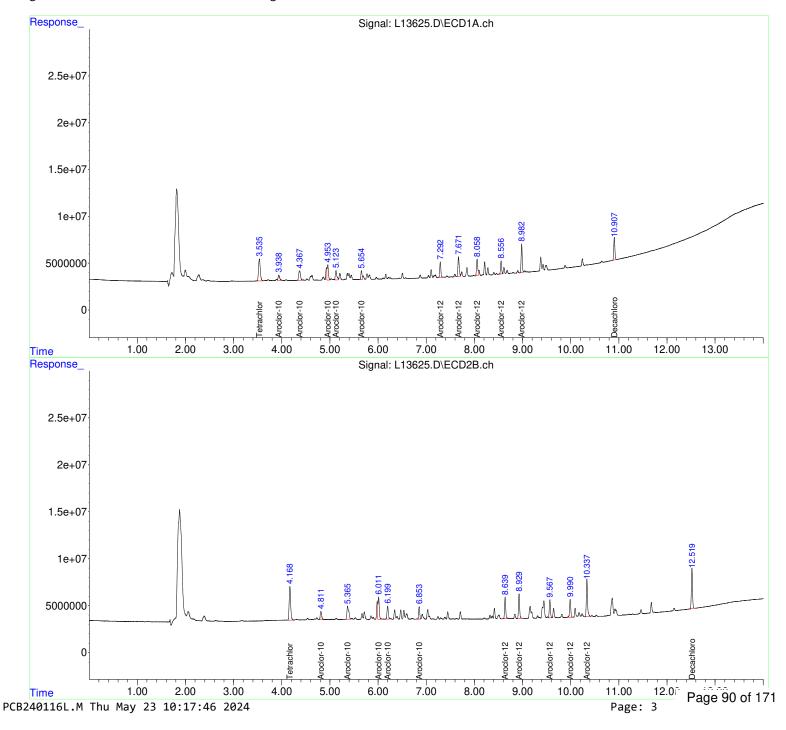
Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

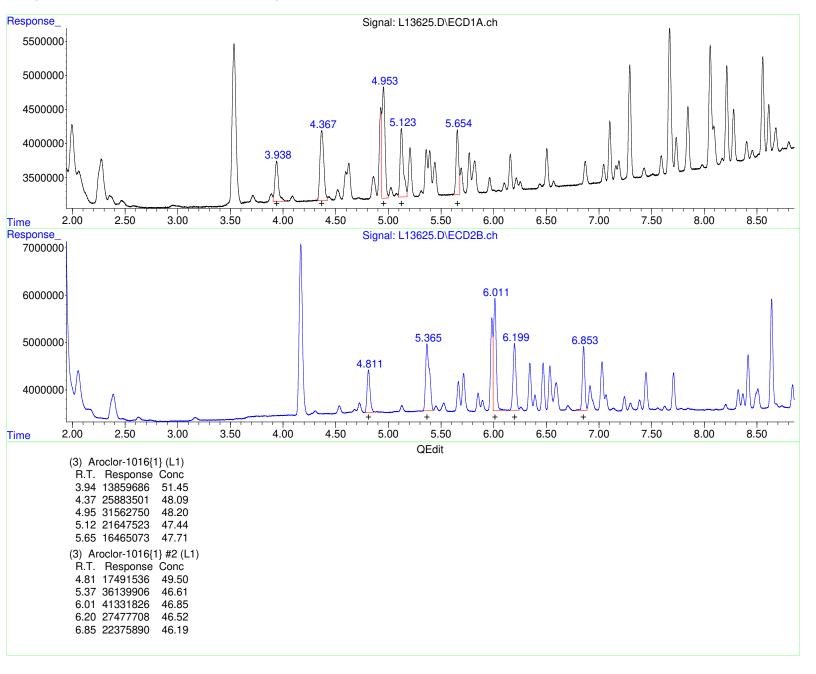
Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

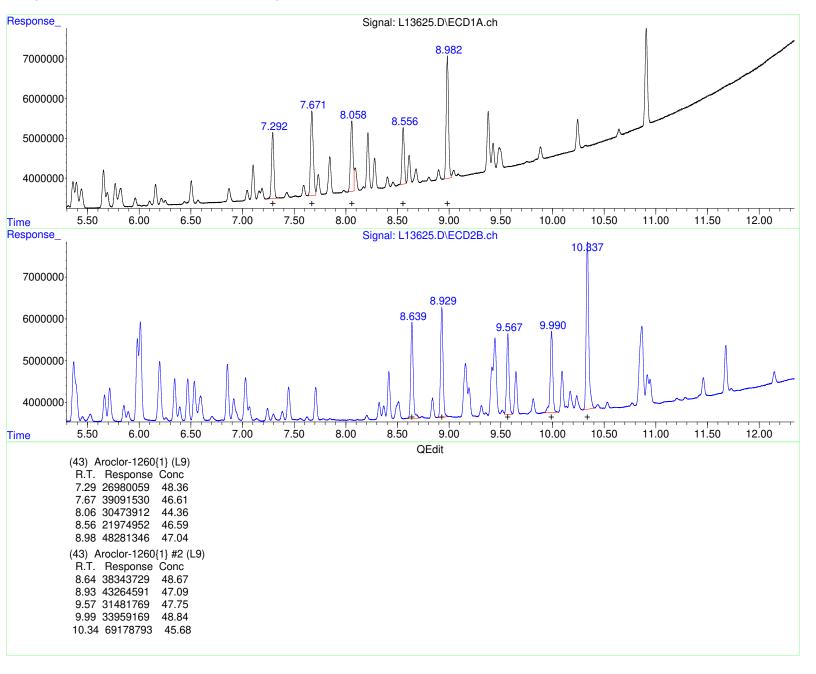
Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L Calibration: AA40009

Lab File ID: L13632.D Calibration Date:

Sequence: SCA0465

01/16/24 00:00

Injection Date:

01/16/24

Lab Sample ID: SCA0465-CCV1 Injection Time: 23:57

		CONC. (μg/L)		RESF	RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016	Α	50.00	48.7	452782.9			-2.6	20	
Aroclor-1260	Α	50.00	47.1	716308			-5.8	20	
Tetrachloro-m-xylene	Α	5.000	4.58	1.269474E+07	1.163827E+07		-8.3	20	
Decachlorobiphenyl	Α	5.000	4.70	8363450	7862736		-6.0	20	

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L13632.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:57 pm

Operator : TL1 Sample : SEQ-CCV

Misc

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:32:38 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:30:51 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	Decachlor	3.534 10.000 Range	60 - 1 12.518	39313685	ery = 70549863	4.584 45.84%# 4.701 47.01%#	4.675 46.75%# 4.668 46.68%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.937 4.367 4.953 5.124 5.654	4.810 5.366 6.011 6.197 6.853	31568117	35973778 40580878 27101717	51.123 47.479m 48.207 48.397m 48.266 243.472 48.694	48.325 46.398 45.999 45.887 47.772 234.382 46.876
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.292 7.671 8.056 8.555 8.983	8.639 8.928 9.567 9.990 10.337	39410325 31971939 22178282 48486988	43697290 32314798 32951533	47.666 46.995 46.545m 47.019m 47.239m 235.464 47.093	47.124m 47.557m 49.010 47.389m 46.560m 237.640 47.528

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13632.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 11:57 pm

Operator : TL1 Sample : SEQ-CCV

Misc

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:32:38 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

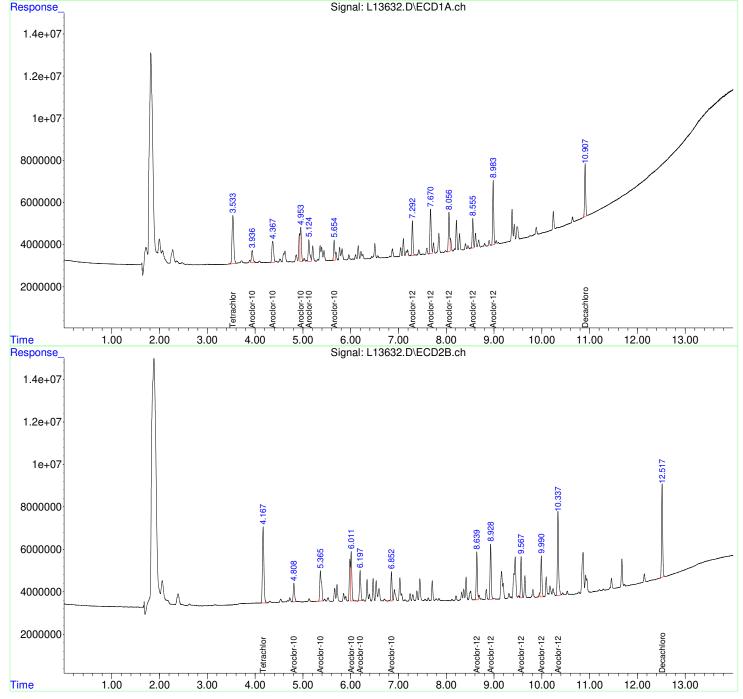
QLast Update: Wed Jan 17 13:30:51 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01

Work Order: AC15354

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L

Calibration: AA40009

Lab File ID: L14366.D

Calibration Date: 01/16/24 00:00

Sequence: SCE0475

Injection Date: 05/02/24

Lab Sample ID: SCE0475-CCV1

Injection Time: 15:20

		CONC. (μg/L)		RESF	PONSE FACTO	R	% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	Α	50.00	53.4	452782.9	479704		6.9	20
Aroclor-1260	Α	50.00	52.3	716308	747488.2		4.6	20
Tetrachloro-m-xylene	Α	5.000	5.07	1.269474E+07	1.288214E+07		1.4	20
Decachlorobiphenyl	Α	5.000	5.04	8363450	8430578		8.0	20

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14366.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 3:20 pm

Operator : AxJ Sample : SEQ-CCV

Misc :

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:13 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	Decachlor	3.345f .0.000 Range	60 - 12 12.292f	42152889	ery = 82605077	5.074 50.74%# 5.040m 50.40%#	5.024 50.24%# 5.466m 54.66%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.735f 4.150f 4.722f 4.887f 5.408f	5.183f 5.820	15896515 27757602 34622617 24061332 17587940 119.9E6	40926399 51617755 31275190	59.007 51.569 52.871 52.729 50.967m 267.143 53.429	52.912 52.786 58.510 52.953 52.434 269.595 53.919
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.025 7.399 7.781 8.276 8.701f	8.425 8.715 9.351 9.770 10.119	28707878 43730577 35303948 25602339 53527312 186.9E6	50365957 36766763	51.454 52.147 51.396m 54.278 52.150 261.425 52.285	52.431m 54.815 55.762 53.371 53.203 269.582 53.916

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14366.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 3:20 pm

Operator : AxJ Sample : SEQ-CCV

Misc :

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 10:09:13 2024

Quant Method : T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

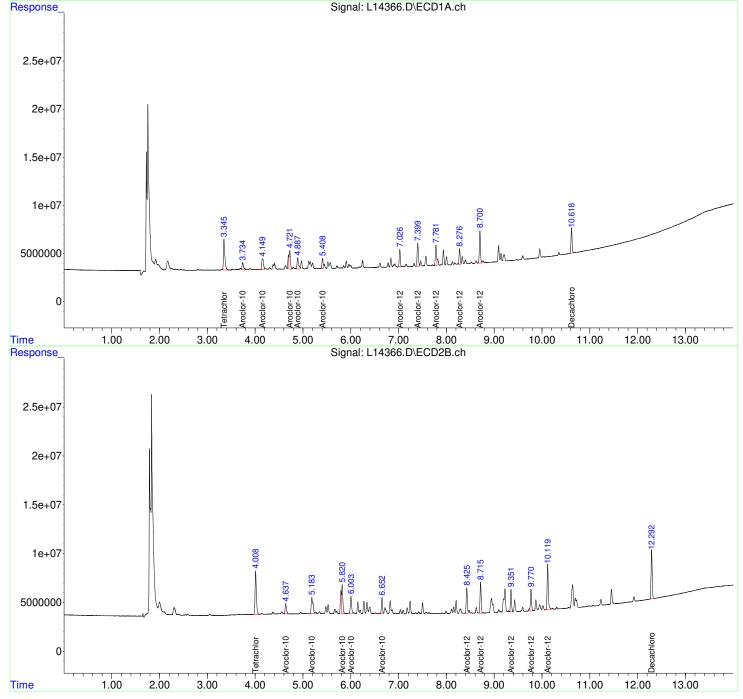
QLast Update: Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



```
Quantitation Report (Qedit)
  Data Path: T:\Data\ECD-L\L240502\
  Data File : L14366.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
              : 2 May 2024
                                  3:20 pm
  Operator
              : AxJ
  Sample
              : SEQ-CCV
  Misc
  ALS Vial
              : 2
                     Sample Multiplier: 1
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:09:13 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                              Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                              Signal #2 Info: 0.25
Response
                                                     Signal: L14366.D\ECD1A.ch
  1.6e+07
 1.4e + 07
 1.2e + 07
   1e+07
 8000000
 6000000
                                                      4.721
                                                                 5.408
                                             4.149
                                      3.734
 4000000
                                                                   5.50
                                                                                           7.00
                                                                                                   7.50
          2.00
                  2.50
                                           4.00
                                                           5.00
                                                                                   6.50
                                                                                                           8.00
                                                                                                                   8.50
Time
                          3.00
                                  3.50
                                                   4.50
                                                                           6.00
                                                      Signal: L14366.D\ECD2B.ch
Response
 2.5e+07
   2e+07
  1.5e+07
   1e+07
                                                                        5.820
                                                             5.183
                                                                           6.003
                                                                                     6.652
                                                     4.637
 5000000
          2.00
                  2.50
Time
                          3.00
                                  3.50
                                          4.00
                                                   4.50
                                                           5.00
                                                                   5.50
                                                                           6.00
                                                                                   6.50
                                                                                           7.00
                                                                                                   7.50
                                                                                                           8.00
                                                                                                                   8.50
                                                              QEdit
        (3) Aroclor-1016{1} (L1)
         R.T. Response Conc
         3.73 15896515 59.01
         4.15 27757602
                      51.57
         4.72 34622617
                      52.87
         4.89 24061332 52.73
         5.41 17587940 50.97
        (3) Aroclor-1016{1} #2 (L1)
         R.T. Response Conc
```

58.51

52.95

52.43

4.64 18698588 52.91 5.18 40926399 52.79 5.82 51617755

6.00 31275190

6.65 25398881

```
Quantitation Report (Qedit)
  Data Path: T:\Data\ECD-L\L240502\
  Data File : L14366.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
              : 2 May 2024
                                 3:20 pm
  Operator
              : AxJ
  Sample
              : SEQ-CCV
  Misc
  ALS Vial
              : 2
                     Sample Multiplier: 1
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:09:13 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                              Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                              Signal #2 Info: 0.25
Response
                                                     Signal: L14366.D\ECD1A.ch
                                                               8.700
 7000000
                                           7.399
                                                 7.781
 6000000
                                                        8.276
                                     7.026
 5000000
 4000000
                                            7.50
             5.50
                             6.50
                                     7.00
                                                                            9.50
                                                                                   10.00
                                                                                           10.50
                                                                                                   11.00
                                                                                                           11.50
                                                                                                                   12.00
Time
                     6.00
                                                    8.00
                                                            8.50
                                                                    9.00
                                                     Signal: L14366.D\ECD2B.ch
Response_
                                                                                     10.119
 8000000
                                                               8.715
 7000000
                                                           8.425
                                                                                9.770
                                                                          9.351
 6000000
 5000000
 4000000
Time
             5.50
                     6.00
                             6.50
                                     7.00
                                            7.50
                                                    8.00
                                                            8.50
                                                                    9.00
                                                                            9.50
                                                                                   10.00
                                                                                           10.50
                                                                                                   11.00
                                                                                                           11.50
                                                                                                                   12.00
                                                             QEdit
        (43) Aroclor-1260{1} (L9)
         R.T. Response Conc
         7.03 28707878 51.45
         7.40 43730577
                      52.15
         7.78 35303948 51.40
         8.28 25602339 54.28
         8.70 53527312 52.15
        (43) Aroclor-1260{1} #2 (L9)
```

R.T. Response Conc 8.43 41307378 52.43 8.72 50365957 54.82 9.35 36766763 55.76 9.77 37111230 53.37 10.12 80564019 53.20

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

EMSL-CIN-01 Laboratory:

Work Order: AC15354

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

19:41

Instrument ID: GCECD-L Calibration:

Lab File ID: L14377.D AA40009

Sequence: SCE0475 Calibration Date: 01/16/24 00:00

Injection Time:

Injection Date: 05/02/24

Lab Sample ID: SCE0475-CCV2

	-				
	RESF	PONSE FACTO	% DIF	/ DRIFT	
′	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3	452782.9	466667.4		3.6	20
)	716308	741697.6		3.9	20

TYPE COMPOUND STD **CCV** Aroclor-1016 Α 50.00 51.8 Aroclor-1260 50.00 52.0 Α 3.9 Tetrachloro-m-xylene Α 5.000 4.97 1.269474E+07 1.262479E+07 -0.6 20 4.92 8363450 8235140 20 Decachlorobiphenyl 5.000 -1.6

CONC. (µg/L)

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14377.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:41 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: May 06 10:10:35 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	Decachlor	3.363 10.000 Range	60 - 1 12.293f	41175700	ery = 81513494	4.972 49.72%# 4.923m 49.23%#	4.975 49.75%# 5.393m 53.93%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1	3.749 4.162 4.729 4.894f 5.414f	4.645 5.189 5.824 6.006 6.654	27941792 33072454	49401375 30329977	54.191 51.912 50.504m 51.632 50.690 258.929 51.786	52.534 50.701 55.997 51.353 48.877 259.462 51.892
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.027 7.401 7.781 8.277 8.701f	8.426 8.716 9.351 9.770 10.119	28880278 42811212 36014306 25176249 52542339 185.4E6	50586973 36628737 36514066	51.763 51.050 52.430m 53.375 51.190 259.809 51.962	51.199m 55.056 55.553 52.512 52.925 267.244 53.449

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14377.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 7:41 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

Sample Multiplier: 1 ALS Vial : 13

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:10:35 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

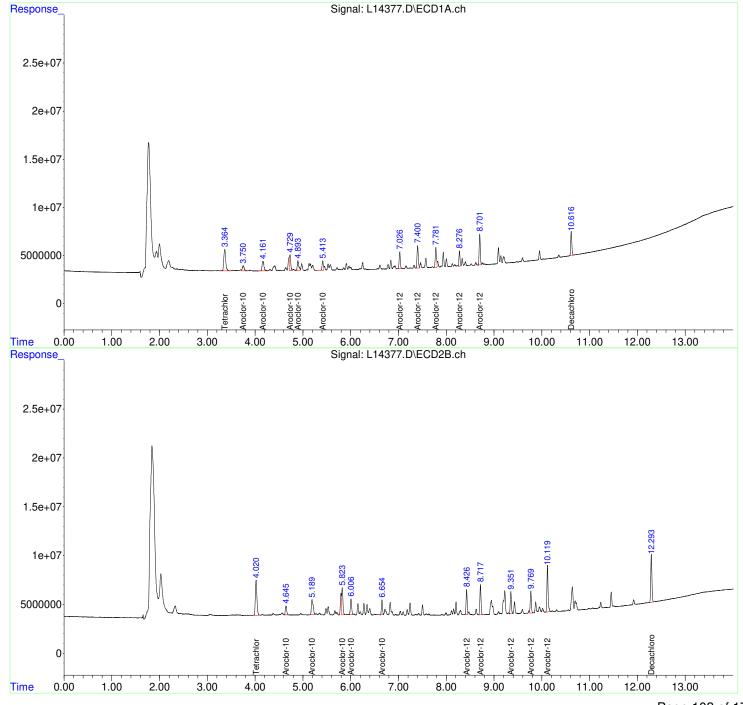
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



```
Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
               : 2 May 2024
                                 7:41 pm
  Operator
              : AxJ/KC
               : SEQ-CCV
  Sample
  Misc
  ALS Vial
               : 13
                       Sample Multiplier: 1
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:10:35 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                                Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                                Signal #2 Info: 0.25
                                                       Signal: L14377.D\ECD1A.ch
Response
   1e+07
 9000000
 8000000
 7000000
 6000000
                                                  4.729
 5000000
                                                     4.893
                                       4.161
                                                                5.413
                              3.750
 4000000
       2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60 7.80 8.00 8.20
Time
                                                       Signal: L14377.D\ECD2B.ch
Response_
   1e+07
 9000000
 8000000
 7000000
                                                                        5.823
 6000000
                                                                            6.006
                                                           5.189
                                                                                         6.654
                                                4.645
 5000000
 4000000
       2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60 7.80 8.00 8.20
Time
                                                                QEdit
         (3) Aroclor-1016{1} (L1)
         R.T. Response Conc
         3.75 14599265 54.19
         4.16 27941792 51.91
         4.73 33072454
                       50.50
         4.89 23560889 51.63
         5.41 17492432 50.69
         (3) Aroclor-1016{1} #2 (L1)
         R.T. Response Conc
         4.65 18565097 52.53
         5.19 39310158 50.70
         5.82 49401375 56.00
         6.01 30329977
                       51.35
         6.65 23675623 48.88
```

Data File : L14377.D

Data File : L14377.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:41 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 10:10:35 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

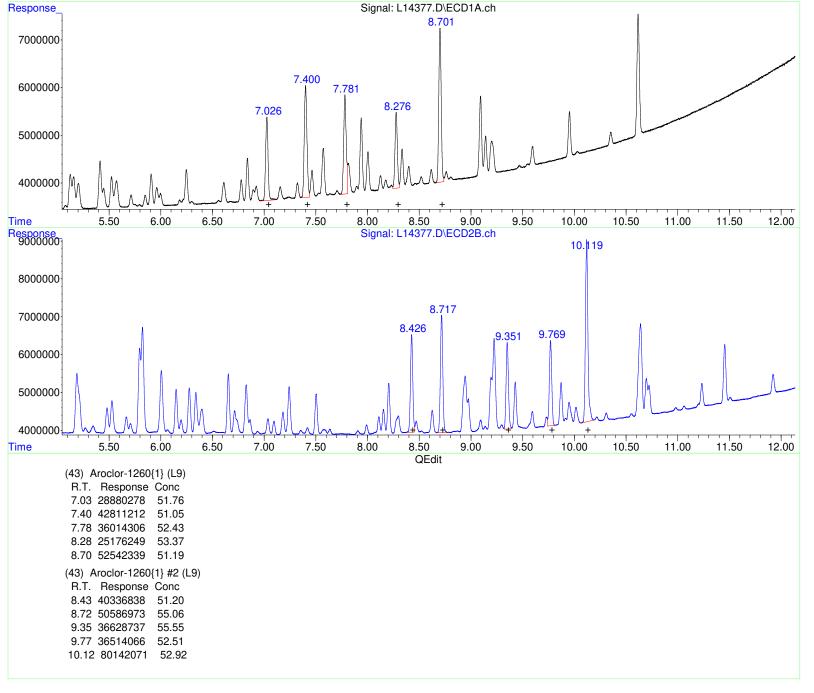
QLast Update : Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L Calibration: AA40009

Lab File ID: L14388.D

Sequence: SCE0475 Calibration Date:

01/16/24 00:00

Injection Date:

05/02/24

Lab Sample ID: SCE0475-CCV3 Injection Time: 22:38

		CONC. (µg/L)		RESF	RESPONSE FACTOR			F / DRIFT
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	А	50.00	50.0	452782.9	455670.6		0.05	20
Aroclor-1260	Α	50.00	48.6	716308	692917.2		-2.9	20
Tetrachloro-m-xylene	Α	5.000	4.83	1.269474E+07	1.227057E+07		-3.4	20
Decachlorobiphenyl	Α	5.000	4.57	8363450	7646686		-8.6	20

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14388.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 10:38 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:11:56 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitoring Compounds 1) SA Tetrachlo 3.356 4.016 61352871 79140 Spiked Amount 10.000 Range 60 - 120 Recovery 2) SA Decachlor 10.617f 12.292f 38233427 76688 Spiked Amount 10.000 Range 60 - 120 Recovery Target Compounds 3) L1 Aroclor-1 3.745 4.642 13585275 17588 4) L1 Aroclor-1 4.158f 5.187 25953703 38052 5) L1 Aroclor-1 4.726f 5.822 34932081 49241 6) L1 Aroclor-1 4.892f 6.005 22907282 28710 7) L1 Aroclor-1 5.410f 6.653 16539320 22755 Sum Aroclor-1016 Average Aroclor-1016 Sum Aroclor-1221 Average Aroclor-1221 Average Aroclor-1222 Sum Aroclor-1232 Average Aroclor-1242 Sum Aroclor-1242 Sum Aroclor-1248 Average Aroclor-1254 Sum Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.425 27455564 39274 44) L9 Aroclor-1 7.399 8.715 39934559 47174 45) L9 Aroclor-1 7.780 9.350 33713798 34559 45129 Aroclor-1 8.275 9.770 23254220 34123	sp#2 ug/	/L ug/L
3) L1 Aroclor-1 3.745 4.642 13585275 17588 4) L1 Aroclor-1 4.158f 5.187 25953703 38052 5.1 L1 Aroclor-1 4.726f 5.822 34932081 49241 6) L1 Aroclor-1 4.892f 6.005 22907282 28710 7) L1 Aroclor-1 5.410f 6.653 16539320 22755 25 25 25 25 25 25 25 25 25 25 25 25 2	= 48.33	.571m 5.074m
Average Aroclor-1221 Sum Aroclor-1232 0 Average Aroclor-1232 0 Sum Aroclor-1242 0 Average Aroclor-1242 0 Sum Aroclor-1248 0 Average Aroclor-1248 0 Sum Aroclor-1254 0 Average Aroclor-1254 0 Sum Aroclor-1262 0 Average Aroclor-1262 0 Average Aroclor-1268 0 Average Aroclor-1268 0 43) L9 Aroclor-1 7.025 8.425 27455564 39274 44) L9 Aroclor-1 7.399 8.715 39934559 47175 45) L9 Aroclor-1 7.780 9.350 33713798 34595	2821 48. 1370 53. 0100 50. 5385 47. .3E6 250.	.427 49.771 .218 49.079 .344m 55.816 .200 48.610 .928m 46.977 .117 250.254 .023 50.051
Average Aroclor-1232 Sum Aroclor-1242 Average Aroclor-1248 Sum Aroclor-1248 Average Aroclor-1254 Average Aroclor-1254 Sum Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.425 27455564 39274 44) L9 Aroclor-1 7.399 8.715 39934559 47175 45) L9 Aroclor-1 7.780 9.350 33713798 34595		.D. N.D.
Average Aroclor-1242 Sum Aroclor-1248 Average Aroclor-1254 Sum Aroclor-1254 Average Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.425 27455564 39274 44) L9 Aroclor-1 7.399 8.715 39934559 47175 45) L9 Aroclor-1 7.780 9.350 33713798 34595		.D. N.D. 0.000
Average Aroclor-1248 Sum Aroclor-1254 Average Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.425 27455564 39274 7175 7189 8.715 39934559 47175 7189 7189 7189 7189 7189 7189 7189 7189		.D. N.D. 0.000
Average Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1268 Sum Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.425 27455564 39274 44) L9 Aroclor-1 7.399 8.715 39934559 47175 45) L9 Aroclor-1 7.780 9.350 33713798 34595		.D. N.D. 0.000
Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.425 27455564 39274 44) L9 Aroclor-1 7.399 8.715 39934559 47175 45) L9 Aroclor-1 7.780 9.350 33713798 34595		.D. N.D. 0.000
Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.425 27455564 39274 44) L9 Aroclor-1 7.399 8.715 39934559 47175 45) L9 Aroclor-1 7.780 9.350 33713798 34595		.D. N.D. 0.000
44) L9 Aroclor-1 7.399 8.715 39934559 47175 45) L9 Aroclor-1 7.780 9.350 33713798 34595		.D. N.D. 0.000
47) L9 Aroclor-1 8.700f 10.118f 48871156 75584 Sum Aroclor-1260 173.2E6 230. Average Aroclor-1260	5346 47. 5522 49. 3596 49. 4222 47. .8E6 242.	.210 49.850m .620 51.343 .081m 52.469 .300 49.074 .613 49.915 .824 252.651 .565 50.530

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14388.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 10:38 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:11:56 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

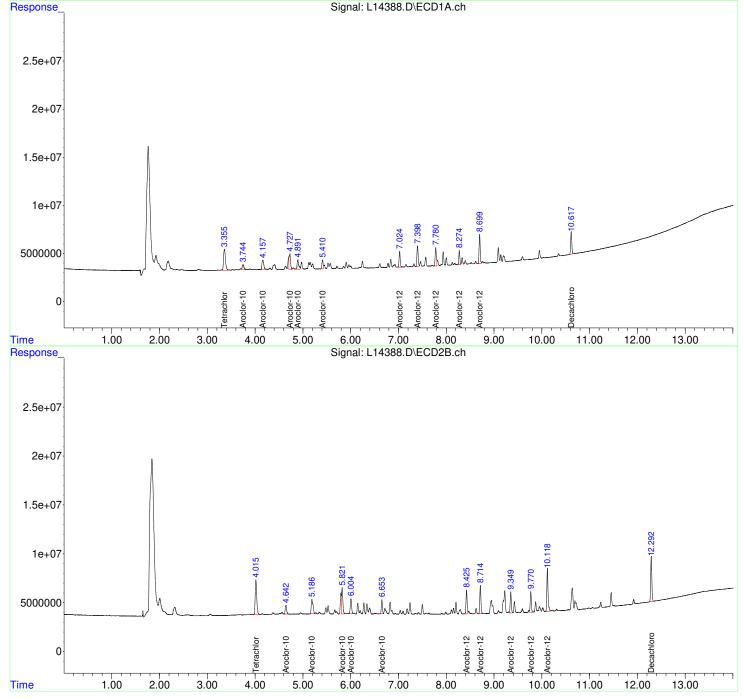
QLast Update: Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01

Work Order: AC15354

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L

Calibration: AA40009

Lab File ID: L14393.D

Calibration: AA4000

Sequence: SCE0475

Calibration Date: 01/16/24 00:00

Sequence: SCE04

Injection Date: 05/02/24

Lab Sample ID: SCE0475-CCV4

Injection Time: 23:59

		CONC. (µg/L)		RESF	RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)		
Aroclor-1016	Α	50.00	52.5	452782.9	467197.4		5.1	20		
Aroclor-1260	Α	50.00	52.0	716308	742328.2		4.0	20		
Tetrachloro-m-xylene	Α	5.000	5.13	1.269474E+07	1.302373E+07		2.6	20		
Decachlorobiphenyl	Α	5.000	5.00	8363450	8356972		0.0	20		

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14393.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:59 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:12:31 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

 ${\tt Response \ via : Initial \ Calibration}$

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	compound	1(1 1	1(1 2	11001 " 1	1,000	49/1	ug/ 1
1) SA Spiked 2) SA	em Monitoring Tetrachlo d Amount Decachlor d Amount	3.361 10.000 Range 10.615f	60 - 1: 12.293f	41784860	ery = 82111285	51.30%# 4.996m	5.098 50.98%# 5.433m 54.33%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.747 4.160f 4.725f 4.893f 5.411f		28196393 31048519 24287037 17000092	31067537	60.383 52.385 47.413m 53.224 49.264m 262.668 52.534	52.602 50.823 266.965
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.025 7.399 7.780 8.275 8.700f	9.350 9.769	43034791	51039813 37069474 37103085	52.643 51.317 50.984m 53.675 51.477 260.097 52.019	53.359 53.927

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14393.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 11:59 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

Sample Multiplier: 1 ALS Vial : 29

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:12:31 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

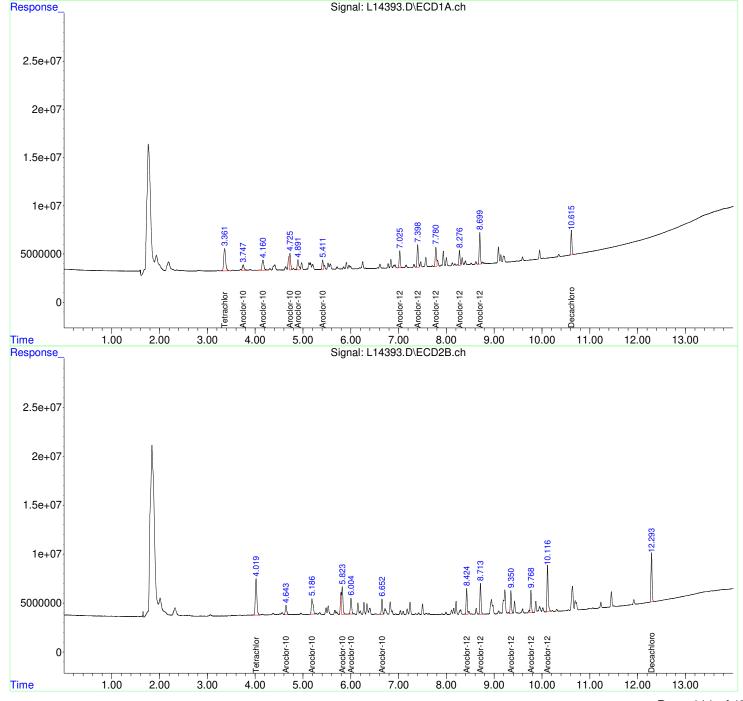
QLast Update: Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



QC DATA

A-10-400-042424

Lab Sample ID:	AC1	5354-01	Date(s) Analyzed:	05/02/2024	05/02/2024
Instrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCEC	D-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm)

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7	332	'`'	FROM	TO	O O NO ENTITION		
Aroclor-1262	1	7.026	0.000	0.000	0.119		
	2	8.426	0.000	0.000	0.123	2.5	

ANALYTES A-07-510E-042424

Lab Sample ID:	AC15	5354-02	Date(s) Analyzed:	05/02/2024	05/02/2024
Instrument ID (1):	GCEC	D-L	Instrument ID (2):	GCECD	-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm)

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7.1.7.2.1.2	002		FROM	TO	001102111111111111111111111111111111111	70111 2	
Aroclor-1262	1	7.025	0.000	0.000	0.0981		
	2	8.426	0.000	0.000	0.101	3.0	

A-08-526-042424

EPA TO-10A

 Lab Sample ID:
 AC15354-03
 Date(s) Analyzed:
 05/02/2024
 05/02/2024

 Instrument ID (1):
 GCECD-L
 Instrument ID (2):
 GCECD-L

 GC Column (1):
 RTX-CLP1
 ID: .32 mm (mm)
 GC Column (2):
 RTX-CLP 2
 ID: .32 mm (mm)

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7.1.0.12.1.2	002		FROM	TO	001102111111111111111111111111111111111	70111 2	
Aroclor-1262	1	7.025	0.000	0.000	0.0972		
	2	8.425	0.000	0.000	0.0983	1.3	

COMPONENT ANALYTES

A-05-608J-042424

EPA TO-10A

 Lab Sample ID:
 AC15354-04
 Date(s) Analyzed:
 05/02/2024
 05/02/2024

 Instrument ID (1):
 GCECD-L
 Instrument ID (2):
 GCECD-L

GC Column (1): RTX-CLP1 ID: .32 mm (mm) GC Column (2): RTX-CLP 2 ID: .32 mm (mm)

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7.1.0.12.1.2	002		FROM	TO	001102111111111111111111111111111111111	701111 2	
Aroclor-1262	1	7.025	0.000	0.000	0.133		
	2	8 427	0.000	0.000	0.137	5.2	

ONENT ANALYTES A-06-635-042424

Lab Sample ID:	ACT	5354-05	Date(s) Analyzed:	05/02/2024	05/02/2024	
Instrument ID (1):	nent ID (1): GCECD-L		Instrument ID (2):	GCECE)-L	
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mn	r

ſ	ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
	, , , , , , , , , , , , , , , , , , , ,			FROM	TO	CONCENTIVITION		
Ī	Aroclor-1262	1	7.026	0.000	0.000	0.132		
Ī		2	8.426	0.000	0.000	0.137	5.2	

A-04-714B-042424

EPA TO-10A

 Lab Sample ID:
 AC15354-06
 Date(s) Analyzed:
 05/02/2024
 05/02/2024

 Instrument ID (1):
 GCECD-L
 Instrument ID (2):
 GCECD-L

 GC Column (1):
 RTX-CLP1
 ID: .32 mm (mm)
 GC Column (2):
 RTX-CLP 2
 ID: .32 mm (mm)

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD
7.1.0.1.1.2	002		FROM	TO	OONOLIVIIVIION	70111 2
Aroclor-1262	1	7.025	0.000	0.000	0.153	
	2	8.426	0.000	0.000	0.161	7.1

NENT ANALYTES DUP-03-742-042424

Lab Sample ID:	ACT	5354-07	Date(s) Analyzed:	05/02/2024	05/02/2024	
Instrument ID (1): GCECD-L		Instrument ID (2):)-L			
GC Column (1)	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CI P 2	ID: .32 mm (mm	r

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7.1.7.2.1.2	002		FROM	TO	OONOLIVIIVIION	701 ti D	
Aroclor-1262	1	7.024	0.000	0.000	0.0798		
	2	8.426	0.000	0.000	0.0804	0.5	

A-03-742-042424

ab Sample ID:	AC1	5354-08	Date(s) Analyzed:	05/02/2024	05/02/2024
nstrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCECE)-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD
7.1.0.12.1.2	002		FROM	TO	001102111111111111111111111111111111111	701 ti D
Aroclor-1262	1	7.025	0.000	0.000	0.0879	
	2	8.426	0.000	0.000	0.0913	3.7

LCS

₋ab Sample ID:	BCD2	253-BS1	Date(s) Analyzed:	05/02/2024	05/02/2024	
nstrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCECI	D-L	
GC Column (1)	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm	1

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7.1.0.12.1.2	002		FROM	TO	001102111111111111111111111111111111111	701 ti D	
Aroclor-1016	1	3.750	0.000	0.000	941		
Aroclor-1260	1	7.027	0.000 0.000		955		

LCS Dup

ab Sample ID:	BCD22	253-BSD1	Date(s) Analyzed:	05/02/2024	05/02/2024	
nstrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCECI	D-L	
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm	í

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD
7.1.0.1.1.2	002		FROM	TO	001102111111111111111111111111111111111	70111 2
Aroclor-1016	1	3.742	0.000	0.000	856	
Aroclor-1260	1	7.025	0.000 0.000		872	

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BLK1 File ID: L14367.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 16:42

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		36.2	50.0	
11104-28-2	Aroclor-1221		36.2	50.0	
11141-16-5	Aroclor-1232		36.2	50.0	
53469-21-9	Aroclor-1242		36.2	50.0	
12672-29-6	Aroclor-1248		9.53	50.0	
11097-69-1	Aroclor-1254		9.53	50.0	
11096-82-5	Aroclor-1260		9.53	50.0	
37324-23-5	Aroclor-1262		9.53	50.0	
11100-14-4	Aroclor-1268		9.53	50.0	

Data File : L14367.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 4:42 pm

Operator : AxJ/KC

Sample : BCD2253-BLK1

Misc

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:20 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: CLPest II Signal #1 Phase : CLPest I

Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitoring Compounds 1) SA Tetrachlo 3.373 4.02 Spiked Amount 10.000 Range 60 - 2) SA Decachlor 10.635 12.30 Spiked Amount 10.000 Range 60 -	- 120 Recovery 02 95610953 183.	= 119 0E6	0.52% 1 11.432m	35.82%# 12.109m
Target Compounds Sum Aroclor-1016 Average Aroclor-1016	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1221 Average Aroclor-1221	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1232 Average Aroclor-1232	0	0	N.D. 0.000	
Sum Aroclor-1242 Average Aroclor-1242	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1248 Average Aroclor-1248	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1254 Average Aroclor-1254	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1262 Average Aroclor-1262	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1268 Average Aroclor-1268	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1260 Average Aroclor-1260	0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14367.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 4:42 pm

: AxJ/KC Operator

: BCD2253-BLK1 Sample

Misc

Sample Multiplier: 1 ALS Vial : 3

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:20 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

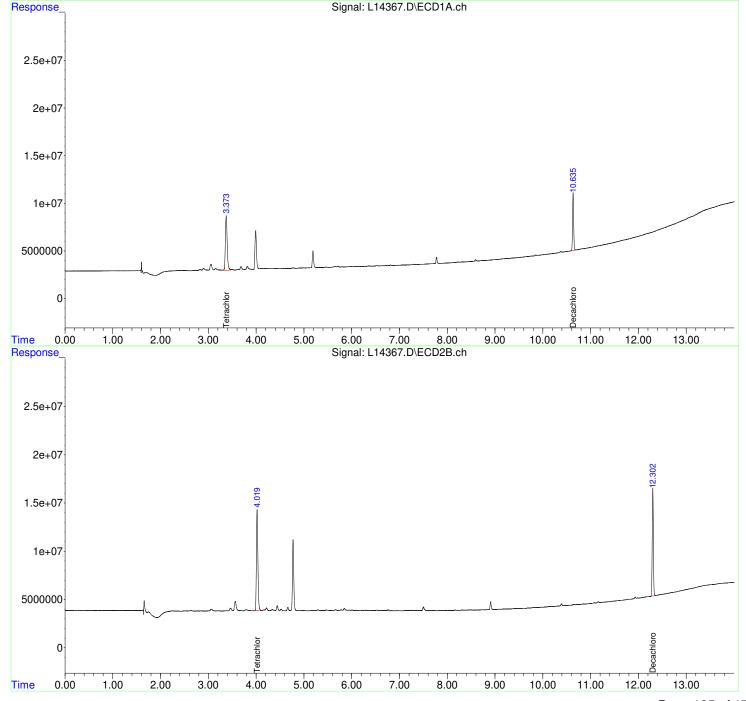
QLast Update : Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BLK2 File ID: L14368.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 17:16

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
0/10/110.		. (руш)	11106		
12674-11-2	Aroclor-1016		36.2	50.0	
11104-28-2	Aroclor-1221		36.2	50.0	
11141-16-5	Aroclor-1232		36.2	50.0	
53469-21-9	Aroclor-1242		36.2	50.0	
12672-29-6	Aroclor-1248		9.53	50.0	
11097-69-1	Aroclor-1254		9.53	50.0	
11096-82-5	Aroclor-1260		9.53	50.0	
37324-23-5	Aroclor-1262		9.53	50.0	
11100-14-4	Aroclor-1268		9.53	50.0	

Data File : L14368.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:16 pm Operator : AxJ/KC

Sample : BCD2253-BLK2

Misc

Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:27 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Target Compounds	0		
Sum Aroclor-1016 0 Average Aroclor-1016		N.D. 0.000	N.D. 0.000
Sum Aroclor-1221 0	0	N.D.	N.D.
Average Aroclor-1221		0.000	0.000
Sum Aroclor-1232 0	0	N.D.	N.D.
Average Aroclor-1232		0.000	0.000
Sum Aroclor-1242	0	N.D.	N.D.
Average Aroclor-1242		0.000	0.000
Sum Aroclor-1248 0	0	N.D.	N.D.
Average Aroclor-1248		0.000	0.000
Sum Aroclor-1254	0	N.D.	N.D.
Average Aroclor-1254		0.000	0.000
Sum Aroclor-1262	0	N.D.	N.D.
Average Aroclor-1262		0.000	0.000
Sum Aroclor-1268 Average Aroclor-1268	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1260 Average Aroclor-1260	0	N.D. 0.000	N.D. 0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14368.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 5:16 pm

: AxJ/KC Operator

Sample : BCD2253-BLK2

Misc

Sample Multiplier: 1 ALS Vial : 4

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:27 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

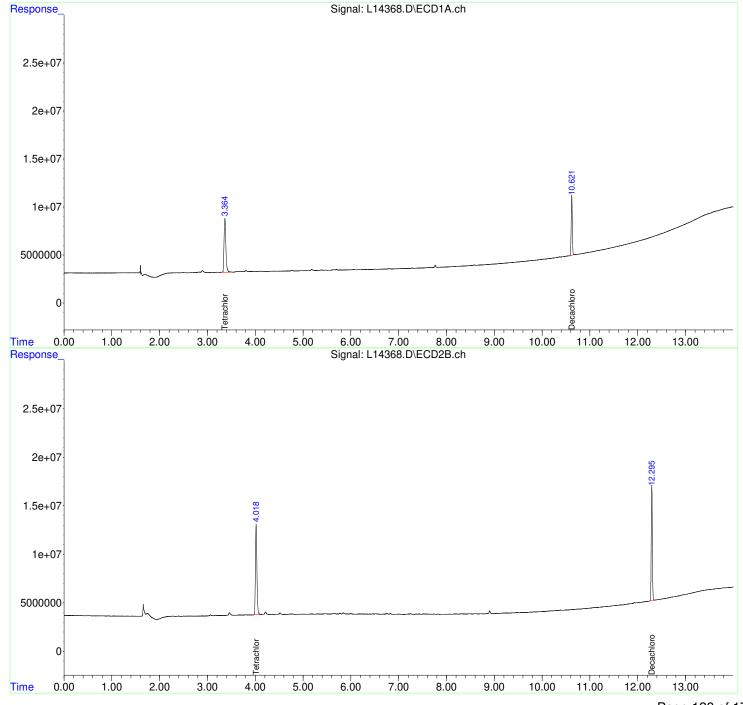
QLast Update : Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

LCS

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BS1 File ID: L14369.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 17:32

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016	941	36.2	50.0	
11096-82-5	Aroclor-1260	955	9.53	50.0	

Data File : L14369.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:32 pm

Operator : AxJ/KC Sample : BCD2253-BS1

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:34 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: CLPest II Signal #1 Phase : CLPest I

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

1	Compound	K1#1	NI#Z	resh#1	resp#2	ug/ ц	ug/ L
1) SA Spike 2) SA	em Monitoring Tetrachlo d Amount Decachlor d Amount	3.363 10.000 Range 10.619f	60 - 1 12.294f	105.4E6	ery = 1 200.8E6	121.95%# 12.606	11.923 119.23% 13.284 132.84%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	et Compounds Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.750 4.161 4.728f 4.894f 5.415f	4.646 5.189 5.824 6.007 6.655	46664119 62600795 40296046 30914400	35069466 69405359 82184210 53744693 44181971 284.6E6	110.342 86.695m 95.596m 88.306m 89.585 470.524 94.105	93.157
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.027 7.402 7.782 8.279 8.703f	8.428 8.718 9.353 9.772 10.119	76660054 72251941 45393871	73788988 89916992 66021324 65615320 146.7E6 442.1E6	91.156 91.414 105.186m 96.237 93.317 477.309 95.462	93.659 97.860 100.130 94.364 96.901 482.914 96.583

Data File : L14369.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:32 pm

Operator : AxJ/KC Sample : BCD2253-BS1

Misc :

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 10:09:34 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

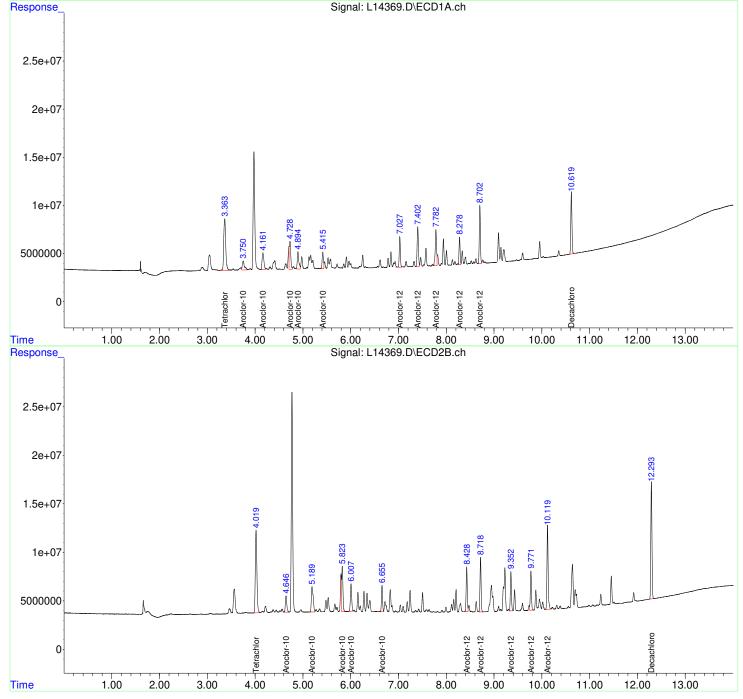
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



```
Data Path: T:\Data\ECD-L\L240502\
Data File : L14369.D
          : 2 May 2024
          : AxJ/KC
Operator
```

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

5:32 pm

Sample : BCD2253-BS1

Misc

Sample Multiplier: 1 ALS Vial : 5

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 06 10:09:34 2024

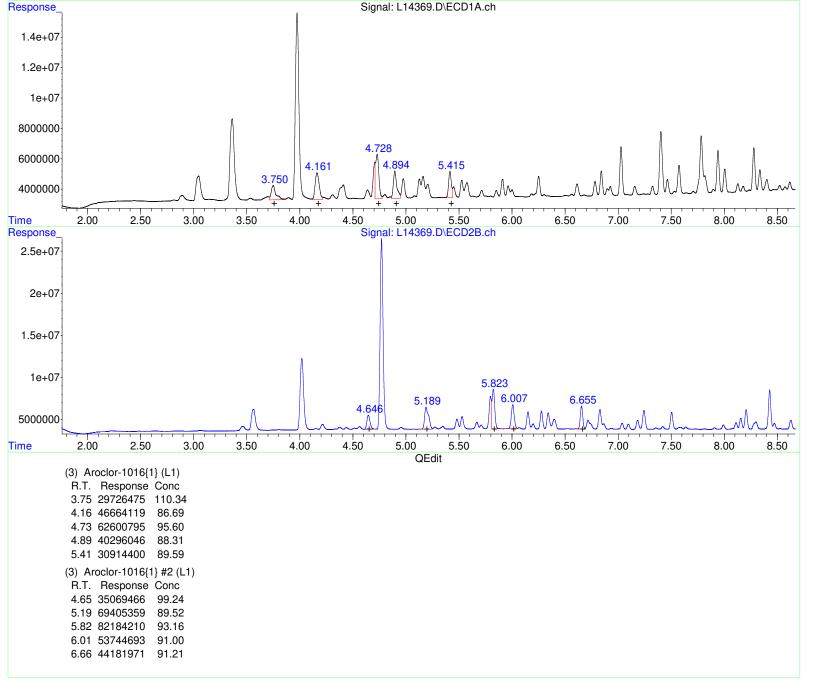
Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

Response via : Initial Calibration Integrator: ChemStation

Volume Inj. Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25



Data File : L14369.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:32 pm

Operator : AxJ/KC Sample : BCD2253-BS1

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 10:09:34 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

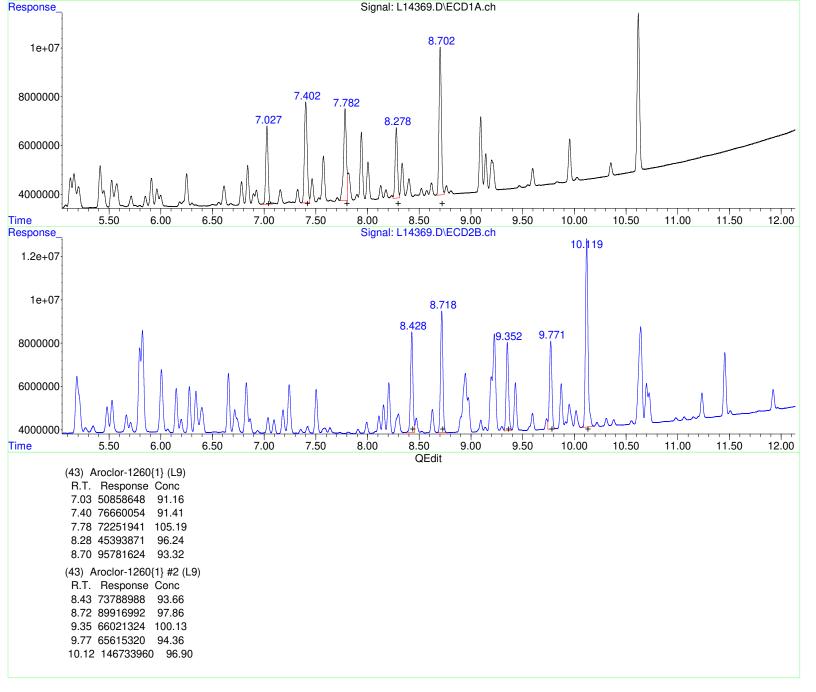
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: EMSL-CIN-01 Work Order: AC15354

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BSD1 File ID: L14370.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 17:48

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016	856	36.2	50.0	
11096-82-5	Aroclor-1260	872	9.53	50.0	

Data File : L14370.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:48 pm

Operator : AxJ/KC

Sample : BCD2253-BSD1

Misc

ALS Vial: 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:42 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	Decachlor	3.350f 0.000 Range	60 - 1: 12.294f	121.1E6 20 Recove 86854723 20 Recove	ery = 166.1E6	95.36% 10.385m	9.046 90.46% 10.993 109.93%
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.742f 4.160f 4.725f 4.892f 5.412f	4.642 5.187 5.821 6.005 6.653	57068883 36505741 28086002	61135915 74662152 48798837	98.591 80.682m 87.148m 80.000m 81.389m 427.810 85.562	84.631 82.623
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.025 7.400 7.780 8.277 8.702f	8.426 8.716 9.351 9.771 10.119	69529362	59712319 59304372	83.668 82.911 97.896m 87.002 84.336 435.811 87.162	84.898 88.395 90.562 85.288 87.352 436.494 87.299

Data File : L14370.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 5:48 pm

: AxJ/KC Operator

: BCD2253-BSD1 Sample

Misc

Sample Multiplier: 1 ALS Vial : 6

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 06 10:09:42 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

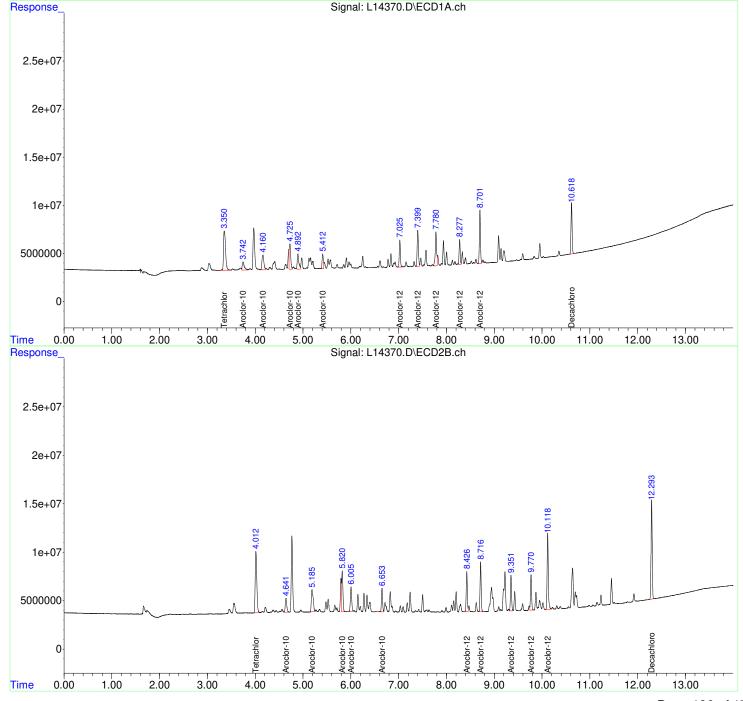
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

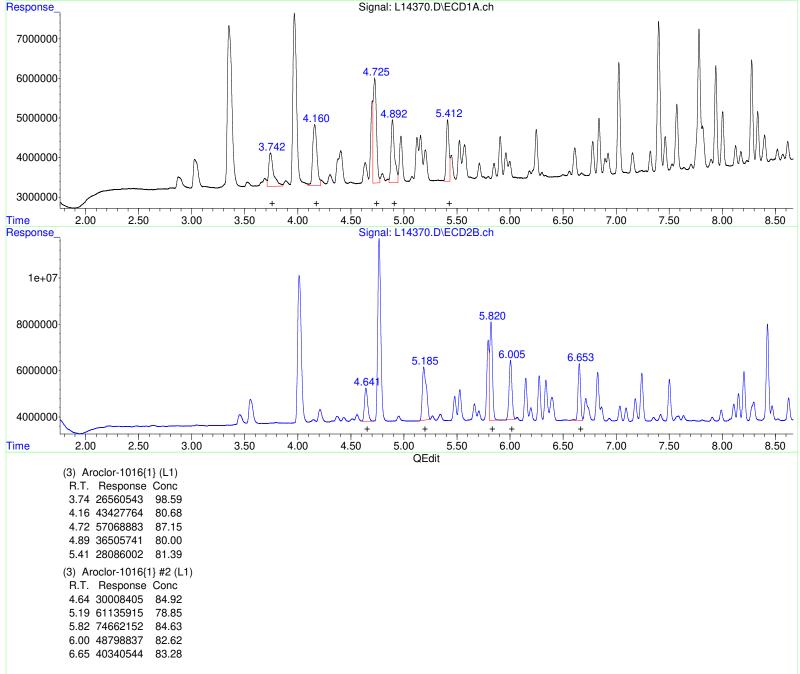
Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



```
Data Path: T:\Data\ECD-L\L240502\
 Data File : L14370.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
            : 2 May 2024
                            5:48 pm
            : AxJ/KC
  Operator
  Sample
            : BCD2253-BSD1
  Misc
                  Sample Multiplier: 1
  ALS Vial
            : 6
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:09:42 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
  Signal #1 Info : 0.25
Response
 7000000
```

Signal #2 Phase: CLPest II Signal #2 Info: 0.25



```
Data Path: T:\Data\ECD-L\L240502\
Data File : L14370.D
Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
          : 2 May 2024
                          5:48 pm
         : AxJ/KC
Operator
          : BCD2253-BSD1
Sample
Misc
ALS Vial
          : 6
```

Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 06 10:09:42 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

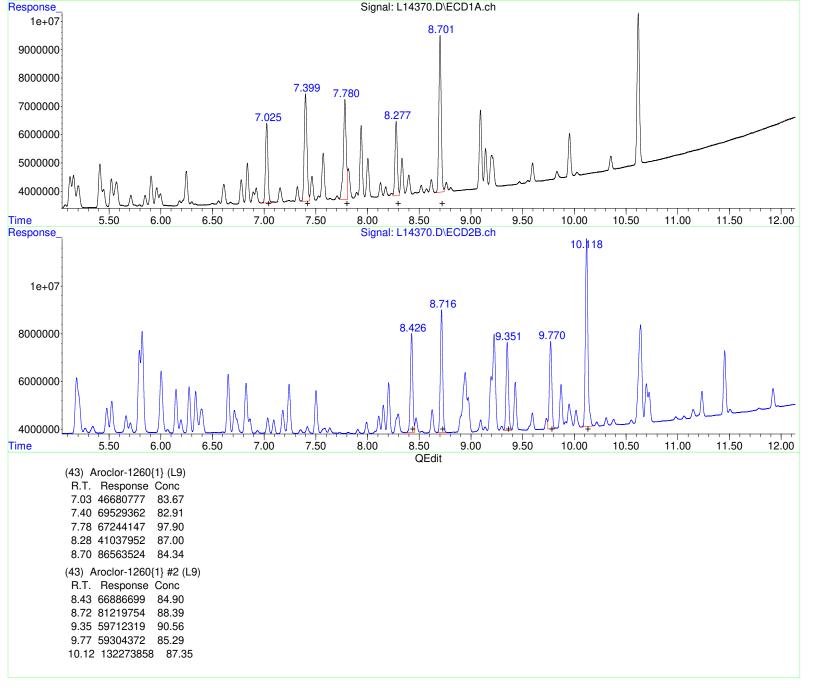
Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25



Print Date/Time: 05/14/2024 4:44 pm

PREPARATION BENCH SHEET

Organics

BCD2253

Matrix: Tubes

Prepared using: GC-SVOA - EPA TO-10A

Analyses			Spiking Solu	Solution(s)			Surrogat	e Solu	tion(s)
401-01-go-10			24A1093	ande ono			1717		b/ rest suilogate
Lab Number	Sample and Source ID	Date Due	Extract by	Prepared	Initial (L)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
AC15369-04	A-11-209-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7344	10		100	
AC15354-02	A-07-510E-042424	05/14/2024	05/03/2024	4/30/2024 3:23:00PM	7488	10		100	
AC15354-03	A-08-526-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7502.4	10		100	
AC15354-04	A-05-608J-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7394.4	10		100	
AC15354-05	A-06-635-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7358.4	10		100	
AC15354-06	A-04-714B-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7416	10		100	
AC15354-07	DUP-03-742-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7387.2	10		100	
AC15354-08	A-03-742-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7516.8	10		100	
AC15354-09	A-14-ROOF-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7567.2	10		100	
AC15369-01	A-13-106-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7142.4	10		100	
AC15354-01	A-10-400-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7466.4	10		100	
AC15369-03	A-15-117-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7480.8	10		100	
BCD2253-BSD1	TCS Dup			4/30/2024 3:23:00PM	1	10	1000	100	
AC15369-05	A-12-228-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7473.6	10		100	
AC15369-06	A-01-216-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7473.6	10		100	
AC15369-07	A-02-317F-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	7588.8	10		100	
AC15369-08	A-09-402G-042424	05/14/2024	05/03/2024	4/30/2024 3:23:00PM	7387.2	10		100	
AC15369-09	DUP-02-402G-042424	05/14/2024	05/03/2024	4/30/2024 3:23:00PM	7516.8	10		100	
AC15369-10	Blank-01-117-042424	05/14/2024	05/02/2024	4/30/2024 3:23:00PM	1	10		100	
BCD2253-BLK1	Blank			4/30/2024 3:23:00PM	1	10		100	
BCD2253-BLK2	Blank			4/30/2024 3:23:00PM	1	10		100	srb
T BCD2253-BS1	CCS			4/30/2024 3:23:00PM	1	10	1000	100	
ge 139									
p ipiking Witnessed By			Preparation Reviewed By	wed By	- Date	l w	Extracts Received By	ceived By	Date
71				Page 1 of 2					

Print Date/Time: 05/14/2024 4:44 pm

PREPARATION BENCH SHEET

Organics

BCD2253

(Continued)

Prepared using: GC-SVOA - EPA TO-10A

Matrix: Tubes

PCB/ Pest Surrogate Surrogate Solution(s) 100 24A1129 10 7358.4 4/30/2024 3:23:00PM 608 Spike Spiking Solution(s) 05/02/2024 24A1093 05/14/2024 DUP-01-106-042424 01-PCB-TO-10A AC15369-02 Analyses

Reagents		
Standard	Description	LotNum
24B0920	Sulfuric Acid	20230818557
24C0733	Baked Sodium Sulfate	218622
24D0523	Hexane	224102
24D0525	PUF Cartridge, TO-10A	14223

Start Date/Time

StopDate/Time

Date

Extracts Received By

Date

Page 2 of 2

Preparation Reviewed By

Date

Ag passaul M living in including the page 140 of 171

Sequence Date: 01/16/2024

Analysis Sequence

SCA0465

Department:

GC-SVOA GCECD-L AA40009 Instrument: Calibration ID:

Lab Number	Sample Name	Order	Position	STD ID	OI OTSI	Comments
SCA0465-CAL1	Cal Standard	1		24A0635		
SCA0465-CAL2	Cal Standard	2		24A0634		
SCA0465-CAL3	Cal Standard	3		24A0633		
SCA0465-CAL4	Cal Standard	4		24A0056		
SCA0465-CAL5	Cal Standard	2		24A0055		
SCA0465-CAL6	Cal Standard	9		24A0054		
SCA0465-ICV1	Initial Cal Check	7		24A0636		
SCA0465-CAL7	Cal Standard	8		2310241		
SCA0465-CAL8	Cal Standard	6		2310242		
SCA0465-CAL9	Cal Standard	10		2310243		
SCA0465-CALA	Cal Standard	11		2310244		
SCA0465-CALB	Cal Standard	12		2310245		
SCA0465-CALC	Cal Standard	13		2310246		
SCA0465-CCV1	23F0359	14		2330124		
BCA0475-BLK1	Blank	15				
BCA0475-BLK2	Blank	16				
BCA0475-BS1	SOT	17				
BCA0475-BSD1	TCS Dup	18				
AC05562-01	SH-PCBA01-01	19				
AC05562-02	SH-PCBA02-01	20				
ab AC05562-03	SH-PCBA03-01	21				
141 of						
17 Inples Loaded By	20	Date			Page 1 of 2	Data Processed By Date

Printed: 05/14/2024 5:39 pm

Sequence Date: 01/16/2024

Analysis Sequence

SCA0465 (Continued)

GC-SVOA GCECD-L AA40009 Department:

Instrument: Calibration ID:

Lab Number	Sample Name	Order	Position	STD ID	ISTD ID	Comments
AC05562-04	SH-PCBA04-01	22				
AC05562-05	SH-PCBA05-01	23				
AC05562-06	SH-PCBA06-01	24				
SCA0465-CCV2	Calibration Check	25		2330124		
AC05562-07	SH-PCBA07-01	56				
AC05562-08	SH-PCBA08-01	27				
AC05562-09	SH-PCBA09-01	28				
AC05562-10	SH-PCBA10-01	59				
AC05562-11	SH-PCBA11-01	30				
AC05562-12	SH-PCBA12-01	31				
AC05562-13	SH-PCBA13-01	32				
AC05562-14	SH-PCBA14-01	33				
BCA0476-MRL1	MRL Check	34				
SCA0465-CCV3	200	35		2330124		

Data Processed By

Date

Page 2 of 2

Date

Page 142 of 171

Sequence Date: 05/02/2024

Analysis Sequence

SCE0475

Department:

GC-SVOA GCECD-L AA40009 Instrument: Calibration ID:

Lab Number	Sample Name	Order	Position	STD ID	ISTD ID	Comments
SCE0475-CCV1	Calibration Check	1		24B1163		
BCD2253-BLK1	Blank	2				
BCD2253-BLK2	Blank	3				
BCD2253-BS1	SJT	4				
BCD2253-BSD1	TCS Dup	2				
BCD2254-MRL1	MRL Check	9				
AC15354-01	A-10-400-042424	7				
AC15354-02	A-07-510E-042424	8				
AC15354-03	A-08-526-042424	6				
AC15354-04	A-05-608J-042424	10				
AC15354-05	A-06-635-042424	11				
SCE0475-CCV2	Calibration Check	12		24B1163		
AC15354-06	A-04-714B-042424	13				
AC15354-07	DUP-03-742-042424	14				
AC15354-08	A-03-742-042424	15				
AC15354-09	A-14-ROOF-042424	16				
AC15369-01	A-13-106-042424	17				
AC15369-02	DUP-01-106-042424	18				
AC15369-03	A-15-117-042424	19				
AC15369-04	A-11-209-042424	20				
ab AC15369-05	A-12-228-042424	21				
143 of						
17 Imples Loaded By		Date			Page 1 of 2	Data Processed By Date

Analysis Sequence

SCE0475 (Continued)

Department: Instrument: Calibration ID:	GC-SVOA GCECD-L AA40009					Sequence Date: 05/02/2024
Lab Number	Sample Name	Order	Position	STD ID	OI OTSI	Comments
AC15369-06	A-01-216-042424	22				
SCE0475-CCV3	200	23		24B1163		
AC15369-07	A-02-317F-042424	24				
AC15369-08	A-09-402G-042424	25				
AC15369-09	DUP-02-402G-042424	56				
AC15369-10	Blank-01-117-042424	27				
SCE0475-CCV4	Calibration Check	28		24B1163		

Data Processed By

Date

Page 2 of 2

Date

Ng papeon saldmin 171

Standard Traceability

Standard ID: 23G0224 Date Prepared: 07/13/2023

Description: PCB 608 Spike Date Expires: 01/13/2024

Solvent: acetone 23F0418 C Prepared by: Roseann Giordano
Lot Number: na Vendor: In House

Vendor: In House

Comments: test element 22g0357 Final Volume (mL:s): 200.0000

1016/1260 23D0297 A

23G0224 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 23D0297
 A0191718
 0.2000

Analyte	Concentration	Units
Aroclor-1016	1.0000	ug/mL
Aroclor-1016 [2C]	1.0000	ug/mL
Aroclor-1260	1.0000	ug/mL
Aroclor-1260 [2C]	1.0000	ug/mL

 Standard ID:
 23/0241
 Date Prepared:
 09/14/2023

 Page visition
 Arcelog 2454 50 ug/l
 02/20/2024

Description:Aroclor 2154 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl John

Lot Number: na Vendor: In-House

Comments: 23H0755B **Final Volume (mL:s):** 25.0000

23I0241 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0755	na	2.5000

Analyte	Concentration	Units
Aroclor-1221	0.0500	ug/g
Aroclor-1221 [2C]	0.0500	ug/g
Aroclor-1221{1}	0.0500	ug/g
Aroclor-1221{1} [2C]	0.0500	ug/g
Aroclor-1221{2}	0.0500	ug/g
Aroclor-1221{2} [2C]	0.0500	ug/g
Aroclor-1221{3}	0.0500	ug/g
Aroclor-1221{3} [2C]	0.0500	ug/g
Aroclor-1221{4}	0.0500	ug/g
Aroclor-1221{4} [2C]	0.0500	ug/g
Aroclor-1221{5}	0.0500	ug/g
Aroclor-1221{5} [2C]	0.0500	ug/g
Aroclor-1254	0.0500	ug/g
Aroclor-1254 [2C]	0.0500	ug/g
Aroclor-1254{1}	0.0500	ug/g
Aroclor-1254{1} [2C]	0.0500	ug/g
Aroclor-1254{2}	0.0500	ug/g
Aroclor-1254{2} [2C]	0.0500	ug/g
Aroclor-1254{3}	0.0500	ug/g
Aroclor-1254{3} [2C]	0.0500	ug/g
Aroclor-1254{4}	0.0500	ug/g
Aroclor-1254{4} [2C]	0.0500	ug/g
Aroclor-1254{5}	0.0500	ug/g
Aroclor-1254{5} [2C]	0.0500	ug/g
Aroclor-1254{6}	0.0500	ug/g
Aroclor-1254{6} [2C]	0.0500	ug/g
Decachlorobiphenyl	0.0050	ug/g
Decachlorobiphenyl [2C]	0.0050	ug/g
Tetrachloro-m-xylene	0.0050	ug/g
Tetrachloro-m-xylene [2C]	0.0050	ug/g

Standard ID: 2310242 Date Prepared: 09/13/2023

Description:Aroclor 1232 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl

Solvent: Hexane 23H0198O Prepared by: Averyl John
Lot Number: na Vendor: In-House

Comments: 23H0757B Final Volume (mL:s): 25.0000

2310242 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0757	na	2.5000

Analyte	Concentration	Units
Aroclor-1232	0.0500	ug/mL
Aroclor-1232 [2C]	0.0500	ug/mL
Aroclor-1232{1}	0.0500	ug/mL
Aroclor-1232{1} [2C]	0.0500	ug/mL
Aroclor-1232{2}	0.0500	ug/mL
Aroclor-1232{2} [2C]	0.0500	ug/mL
Aroclor-1232{3}	0.0500	ug/mL
Aroclor-1232{3} [2C]	0.0500	ug/mL
Aroclor-1232{4}	0.0500	ug/mL
Aroclor-1232{4} [2C]	0.0500	ug/mL
Aroclor-1232{5}	0.0500	ug/mL
Aroclor-1232{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 2310243 **Date Prepared:** 09/14/2023

Description:Aroclor 1242 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl John

Lot Number: na Vendor: In-House

Comments: 23H0758B Final Volume (mL:s): 25.0000

23I0243 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0758	na	2.5000

Analyte	Concentration	Units
Aroclor-1242	0.0500	ug/mL
Aroclor-1242 [2C]	0.0500	ug/mL
Aroclor-1242{1}	0.0500	ug/mL
Aroclor-1242{1} [2C]	0.0500	ug/mL
Aroclor-1242{2}	0.0500	ug/mL
Aroclor-1242{2} [2C]	0.0500	ug/mL
Aroclor-1242{3}	0.0500	ug/mL
Aroclor-1242{3} [2C]	0.0500	ug/mL
Aroclor-1242{4}	0.0500	ug/mL
Aroclor-1242{4} [2C]	0.0500	ug/mL
Aroclor-1242{5}	0.0500	ug/mL
Aroclor-1242{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 23/0244 Date Prepared: 09/14/2023

Description:Aroclor 1248 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl John

Lot Number: na Vendor: In-House

Comments: 23H0759B **Final Volume (mL:s):** 25.0000

23I0244 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0759	na	2.5000

Analyte	Concentration	Units
Aroclor-1248	0.0500	ug/mL
Aroclor-1248 [2C]	0.0500	ug/mL
Aroclor-1248{1}	0.0500	ug/mL
Aroclor-1248{1} [2C]	0.0500	ug/mL
Aroclor-1248{2}	0.0500	ug/mL
Aroclor-1248{2} [2C]	0.0500	ug/mL
Aroclor-1248{3}	0.0500	ug/mL
Aroclor-1248{3} [2C]	0.0500	ug/mL
Aroclor-1248{4}	0.0500	ug/mL
Aroclor-1248{4} [2C]	0.0500	ug/mL
Aroclor-1248{5}	0.0500	ug/mL
Aroclor-1248{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 2310245 **Date Prepared:** 09/14/2023

Description:Aroclor 1262 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl

Solvent:Hexane 23H0198OPrepared by: Averyl JohnLot Number:naVendor: In-House

Comments: 23H0761B Final Volume (mL:s): 25.0000

2310245 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 23H0761
 na
 2.5000

Analyte	Concentration	Units
Aroclor-1262	0.0500	ug/mL
Aroclor-1262 [2C]	0.0500	ug/mL
Aroclor-1262{1}	0.0500	ug/mL
Aroclor-1262{1} [2C]	0.0500	ug/mL
Aroclor-1262{2}	0.0500	ug/mL
Aroclor-1262{2} [2C]	0.0500	ug/mL
Aroclor-1262{3}	0.0500	ug/mL
Aroclor-1262{3} [2C]	0.0500	ug/mL
Aroclor-1262{4}	0.0500	ug/mL
Aroclor-1262{4} [2C]	0.0500	ug/mL
Aroclor-1262{5}	0.0500	ug/mL
Aroclor-1262{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

 Standard ID:
 23/0246

 Date Prepared:
 09/14/2023

Description:Aroclor 1268 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl

Solvent: Hexane 23H0198O Prepared by: Averyl John
Lot Number: na Vendor: In-House

Comments: 23H0762B **Final Volume (mL:s):** 25.0000

2.5ml of 1268 500ug/l standard into a 25ml flask.

2310246 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0762	na	2.5000

Analyte	Concentration	Units
Aroclor-1268	0.0500	ug/mL
Aroclor-1268 [2C]	0.0500	ug/mL
Aroclor-1268{1}	0.0500	ug/mL
Aroclor-1268{1} [2C]	0.0500	ug/mL
Aroclor-1268{2}	0.0500	ug/mL
Aroclor-1268{2} [2C]	0.0500	ug/mL
Aroclor-1268{3}	0.0500	ug/mL
Aroclor-1268{3} [2C]	0.0500	ug/mL
Aroclor-1268{4}	0.0500	ug/mL
Aroclor-1268{4} [2C]	0.0500	ug/mL
Aroclor-1268{5}	0.0500	ug/mL
Aroclor-1268{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

 Standard ID:
 23J0124
 Date Prepared:
 10/05/2023

 Description:
 1660 CCV 50
 Date Expires:
 02/29/2024

Solvent: Hexane 23H0198N Prepared by: Thomas Lindsay

Vendor: Fisher

Comments: 2 and the half ml of 1660 CCV 500 standard in 25ml flask of Hexane. Final Volume (mL:s): 25.0000

23J0124 Prepared from the following standards:

231763

Lot Number:

Parent Std ID	Lot #	Vol (mLs)
2310544	NA	2.5000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

 Standard ID:
 24A0054
 Date Prepared:
 11/28/2023

 Description:
 1660 Cal Std 250ug/L
 Date Expires:
 06/28/2024

Solvent: Hexane 23J0201L Prepared by: Thomas Lindsay

Lot Number: na Vendor: In-House

Comments: Used aliquot A. Created aliquot A, B, C. Final Volume (mL:s): 100.0000

24A0054 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
24A0053	na	50.0000

Analyte	Concentration	Units
Aroclor-1016	0.2500	ug/mL
Aroclor-1016 [2C]	0.2500	ug/mL
Aroclor-1016{1}	0.2500	ug/mL
Aroclor-1016{1} [2C]	0.2500	ug/mL
Aroclor-1016{2}	0.2500	ug/mL
Aroclor-1016{2} [2C]	0.2500	ug/mL
Aroclor-1016{3}	0.2500	ug/mL
Aroclor-1016{3} [2C]	0.2500	ug/mL
Aroclor-1016{4}	0.2500	ug/mL
Aroclor-1016{4} [2C]	0.2500	ug/mL
Aroclor-1016{5}	0.2500	ug/mL
Aroclor-1016{5} [2C]	0.2500	ug/mL
Aroclor-1260	0.2500	ug/mL
Aroclor-1260 [2C]	0.2500	ug/mL
Aroclor-1260{1}	0.2500	ug/mL
Aroclor-1260{1} [2C]	0.2500	ug/mL
Aroclor-1260{2}	0.2500	ug/mL
Aroclor-1260{2} [2C]	0.2500	ug/mL
Aroclor-1260{3}	0.2500	ug/mL
Aroclor-1260{3} [2C]	0.2500	ug/mL
Aroclor-1260{4}	0.2500	ug/mL
Aroclor-1260{4} [2C]	0.2500	ug/mL
Aroclor-1260{5}	0.2500	ug/mL
Aroclor-1260{5} [2C]	0.2500	ug/mL
Decachlorobiphenyl	0.0250	ug/mL
Decachlorobiphenyl [2C]	0.0250	ug/mL
Tetrachloro-m-xylene	0.0250	ug/mL
Tetrachloro-m-xylene [2C]	0.0250	ug/mL

Standard ID: 24A0055 **Date Prepared:** 12/28/2023

1660 Cal Std 100ug/L **Date Expires:** 06/28/2024 Description: Solvent: Hexane 23J0201L Prepared by: Thomas Lindsay

Lot Number: Vendor: In-House

Final Volume (mL:s): 100.0000 Comments: Used aliquot A. Created aliquot A, B, C.

24A0055 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
24A0054	na	40.0000

Analyte	Concentration	Units
Aroclor-1016	0.1000	ug/mL
Aroclor-1016 [2C]	0.1000	ug/mL
Aroclor-1016{1}	0.1000	ug/mL
Aroclor-1016{1} [2C]	0.1000	ug/mL
Aroclor-1016{2}	0.1000	ug/mL
Aroclor-1016{2} [2C]	0.1000	ug/mL
Aroclor-1016{3}	0.1000	ug/mL
Aroclor-1016{3} [2C]	0.1000	ug/mL
Aroclor-1016{4}	0.1000	ug/mL
Aroclor-1016{4} [2C]	0.1000	ug/mL
Aroclor-1016{5}	0.1000	ug/mL
Aroclor-1016{5} [2C]	0.1000	ug/mL
Aroclor-1260	0.1000	ug/mL
Aroclor-1260 [2C]	0.1000	ug/mL
Aroclor-1260{1}	0.1000	ug/mL
Aroclor-1260{1} [2C]	0.1000	ug/mL
Aroclor-1260{2}	0.1000	ug/mL
Aroclor-1260{2} [2C]	0.1000	ug/mL
Aroclor-1260{3}	0.1000	ug/mL
Aroclor-1260{3} [2C]	0.1000	ug/mL
Aroclor-1260{4}	0.1000	ug/mL
Aroclor-1260{4} [2C]	0.1000	ug/mL
Aroclor-1260{5}	0.1000	ug/mL
Aroclor-1260{5} [2C]	0.1000	ug/mL
Decachlorobiphenyl	0.0100	ug/mL
Decachlorobiphenyl [2C]	0.0100	ug/mL
Tetrachloro-m-xylene	0.0100	ug/mL
Tetrachloro-m-xylene [2C]	0.0100	ug/mL

 Standard ID:
 24A0056
 Date Prepared:
 12/28/2023

 Description:
 1660 Cal Std 50ug/L
 Date Expires:
 06/28/2024

Solvent: Hexane 23J0201L Prepared by: Thomas Lindsay

Lot Number: na Vendor: In-House

Comments: Used aliquot A. Created aliquot A, B, C. Final Volume (mL:s): 100.0000

24A0056 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0055
 na
 50.0000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 24A0633

Description: 1660 Cal Std 25ug/L **Solvent:** Hexane 23J0201Q

Lot Number: na

Comments:

Date Prepared: 01/16/2024 **Date Expires:** 06/28/2024

Prepared by: Thomas Lindsay

Vendor: In-House

Final Volume (mL:s): 100.0000

Used aliquot A. Created aliquot A, B, C.

24A0633 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0056
 na
 50.0000

Analyte	Concentration	Units
Aroclor-1016	0.0250	ug/mL
Aroclor-1016 [2C]	0.0250	ug/mL
Aroclor-1016{1}	0.0250	ug/mL
Aroclor-1016{1} [2C]	0.0250	ug/mL
Aroclor-1016{2}	0.0250	ug/mL
Aroclor-1016{2} [2C]	0.0250	ug/mL
Aroclor-1016{3}	0.0250	ug/mL
Aroclor-1016{3} [2C]	0.0250	ug/mL
Aroclor-1016{4}	0.0250	ug/mL
Aroclor-1016{4} [2C]	0.0250	ug/mL
Aroclor-1016{5}	0.0250	ug/mL
Aroclor-1016{5} [2C]	0.0250	ug/mL
Aroclor-1260	0.0250	ug/mL
Aroclor-1260 [2C]	0.0250	ug/mL
Aroclor-1260{1}	0.0250	ug/mL
Aroclor-1260{1} [2C]	0.0250	ug/mL
Aroclor-1260{2}	0.0250	ug/mL
Aroclor-1260{2} [2C]	0.0250	ug/mL
Aroclor-1260{3}	0.0250	ug/mL
Aroclor-1260{3} [2C]	0.0250	ug/mL
Aroclor-1260{4}	0.0250	ug/mL
Aroclor-1260{4} [2C]	0.0250	ug/mL
Aroclor-1260{5}	0.0250	ug/mL
Aroclor-1260{5} [2C]	0.0250	ug/mL
Decachlorobiphenyl	0.0025	ug/mL
Decachlorobiphenyl [2C]	0.0025	ug/mL
Tetrachloro-m-xylene	0.0025	ug/mL
Tetrachloro-m-xylene [2C]	0.0025	ug/mL

Standard ID: 24A0634

Description: 1660 Cal Std 10ug/L **Solvent:** Hexane 23J0201Q

Lot Number: na

Comments:

Date Prepared: 01/16/2024 **Date Expires:** 06/28/2024

Prepared by: Thomas Lindsay

Vendor: In-House

Final Volume (mL:s): 100.0000

24A0634 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0633
 na
 40.0000

Used aliquot A. Created aliquot A, B, C.

Analyte	Concentration	Units
Aroclor-1016	0.0100	ug/mL
Aroclor-1016 [2C]	0.0100	ug/mL
Aroclor-1016{1}	0.0100	ug/mL
Aroclor-1016{1} [2C]	0.0100	ug/mL
Aroclor-1016{2}	0.0100	ug/mL
Aroclor-1016{2} [2C]	0.0100	ug/mL
Aroclor-1016{3}	0.0100	ug/mL
Aroclor-1016{3} [2C]	0.0100	ug/mL
Aroclor-1016{4}	0.0100	ug/mL
Aroclor-1016{4} [2C]	0.0100	ug/mL
Aroclor-1016{5}	0.0100	ug/mL
Aroclor-1016{5} [2C]	0.0100	ug/mL
Aroclor-1260	0.0100	ug/mL
Aroclor-1260 [2C]	0.0100	ug/mL
Aroclor-1260{1}	0.0100	ug/mL
Aroclor-1260{1} [2C]	0.0100	ug/mL
Aroclor-1260{2}	0.0100	ug/mL
Aroclor-1260{2} [2C]	0.0100	ug/mL
Aroclor-1260{3}	0.0100	ug/mL
Aroclor-1260{3} [2C]	0.0100	ug/mL
Aroclor-1260{4}	0.0100	ug/mL
Aroclor-1260{4} [2C]	0.0100	ug/mL
Aroclor-1260{5}	0.0100	ug/mL
Aroclor-1260{5} [2C]	0.0100	ug/mL
Decachlorobiphenyl	0.0010	ug/mL
Decachlorobiphenyl [2C]	0.0010	ug/mL
Tetrachloro-m-xylene	0.0010	ug/mL
Tetrachloro-m-xylene [2C]	0.0010	ug/mL

Standard ID: 24A0635 Date Prepared: 01/16/2024

Description:1660 Cal Std 5ug/LDate Expires:06/28/2024Solvent:Hexane 23J0201QPrepared by:Thomas Lindsay

Lot Number: na Vendor: In-House

Comments: Used aliquot A. Created aliquot A, B, C. Final Volume (mL:s): 100.0000

24A0635 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0634
 na
 50.0000

Analyte	Concentration	Units
Aroclor-1016	0.0050	ug/mL
Aroclor-1016 [2C]	0.0050	ug/mL
Aroclor-1016{1}	0.0050	ug/mL
Aroclor-1016{1} [2C]	0.0050	ug/mL
Aroclor-1016{2}	0.0050	ug/mL
Aroclor-1016{2} [2C]	0.0050	ug/mL
Aroclor-1016{3}	0.0050	ug/mL
Aroclor-1016{3} [2C]	0.0050	ug/mL
Aroclor-1016{4}	0.0050	ug/mL
Aroclor-1016{4} [2C]	0.0050	ug/mL
Aroclor-1016{5}	0.0050	ug/mL
Aroclor-1016{5} [2C]	0.0050	ug/mL
Aroclor-1260	0.0050	ug/mL
Aroclor-1260 [2C]	0.0050	ug/mL
Aroclor-1260{1}	0.0050	ug/mL
Aroclor-1260{1} [2C]	0.0050	ug/mL
Aroclor-1260{2}	0.0050	ug/mL
Aroclor-1260{2} [2C]	0.0050	ug/mL
Aroclor-1260{3}	0.0050	ug/mL
Aroclor-1260{3} [2C]	0.0050	ug/mL
Aroclor-1260{4}	0.0050	ug/mL
Aroclor-1260{4} [2C]	0.0050	ug/mL
Aroclor-1260{5}	0.0050	ug/mL
Aroclor-1260{5} [2C]	0.0050	ug/mL
Decachlorobiphenyl	0.0005	ug/mL
Decachlorobiphenyl [2C]	0.0005	ug/mL
Tetrachloro-m-xylene	0.0005	ug/mL
Tetrachloro-m-xylene [2C]	0.0005	ug/mL

 Standard ID:
 24A0636
 Date Prepared:
 01/16/2024

 Description:
 1660 ICV 50ug/L
 Date Expires:
 05/02/2024

Solvent: Hexane 23J0201Q Prepared by: Thomas Lindsay

Vendor: In-House

Comments: Used vial A Created vails a and B Final Volume (mL:s): 50.0000

24A0636 Prepared from the following standards:

Lot Number:

Parent Std ID	Lot #	Vol (mLs)
23K0081	na	5.0000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 24A1093 Date Prepared: 01/30/2024

Description:608 SpikeDate Expires:07/28/2024

Solvent: Acetone 23I0253 Prepared by: Maxwell Baier
Lot Number: A0198397 Vendor: In-House

vendor: In-House

The second of the second o

Comments: 100 mL Acetone Fina Aroclor 1016/1260 24A0123A

24A1093 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0123
 A0198397
 0.2000

Analyte	Concentration	Units	
Aroclor-1016	1.0000	ug/mL	
Aroclor-1016 [2C]	1.0000	ug/mL	
Aroclor-1260	1.0000	ug/mL	
Aroclor-1260 [2C]	1.0000	ug/mL	

 Standard ID:
 24A1129

 Date Prepared:
 01/31/2024

Description:PCB/ Pest SurrogateDate Expires:07/29/2024Solvent:Acetone 23I0253Prepared by: Maxwell

Solvent: Acetone 2310253 Prepared by: Maxwell Baier
Lot Number: N/A Vendor: In-House

Past Surrogate Mix: 24A0112 C Final Volume (mL:s): 200.0000

Comments: Pest Surrogate Mix: 24A0112 C

Lot # A0203741

24A1129 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 22H0064
 A0185124
 1.0000

Analyte	Concentration	Units	
Decachlorobiphenyl	1.0000	ug/mL	
Decachlorobiphenyl [2C]	1.0000	ug/mL	
Tetrachloro-m-xylene	1.0000	ug/mL	
Tetrachloro-m-xylene [2C]	1.0000	ug/mL	

Standard ID: 24B1163 **Date Prepared:** 02/29/2024 1660 CCV 50 **Date Expires:** 06/12/2024 Description:

Solvent: Hexane 24B0290 Prepared by: Thomas Lindsay Lot Number: 23L1861094

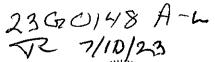
Vendor: VWR

Final Volume (mL:s): 25.0000 Comments: 2 and the half ml of 1660 CCV 500 standard in 25ml flask of Hexane.

24B1163 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
24B0367	NA	2.5000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL





CERTIFIED REFERENCE MATERIAL





110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

Certificate of Analysis





www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32000

Lot No.: A0197094

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

July 31, 2029

Storage:

Ship:

10°C or colder

Ambient

Handling:

Contains PCBs - sonicate prior to

use.

CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	201.2 μg/mL	+/- 11.1631	
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	201.7 μg/mL	+/- 11.1898	

^{*} Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Acetone

CAS # 67-64-1 Purity 99%



Quality Confirmation Test

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

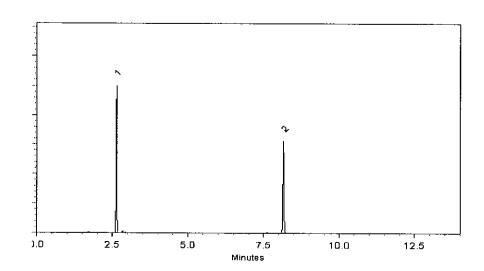
Det. Type:

ECD

Split Vent:

10 ml/min.

Inj. Vol 1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed:

17-Арг-2023

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

24-Apr-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

23G0149 A-F



CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

www.restek.com

Certificate of Analysis





FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32039

Lot No.: A0191718

Description:

Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

February 28, 2029

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ambient Ship:

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. ∰ (weight/volume)			Expanded (95% C.L.;	*			
1	Aroclor	1016			1,001.0	μg/mL	+/-	5.8332	μg/mL	Gravimetric
	CAS#	12674-11-2	(Lot 4)				+/-	31.7173	μg/mL	Unstressed
	Purity	%					+/-	41.4374	μg/mL	Stressed
!	Aroclor	1260			1,001.1	μg/mL	+/-	5.8336	μg/mL	Gravimetric
	CAS#	11096-82-5	(Lot 1294610)				+/-	31.7197	μg/mL	Unstressed
	Purity	%					+/-	41.4405	μg/mL	Stressed

Solvent:

Hexane

CAS#

110-54-3

Purity

99%

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

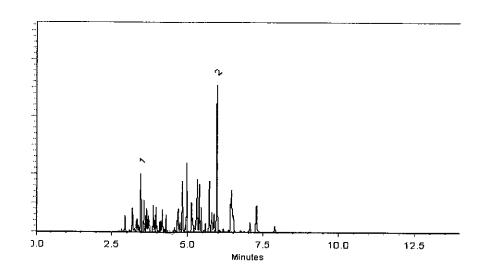
250°C

Det. Temp:

300°C

Det. Type:

ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech 1

Date Mixed:

15-Nov-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed:

17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397



2340152 A,B

ISO 17034

Reference Material Certificate Product Information Sheet

Product Name:

Calibration Standard

Lot Number:

0006740524

Product Number:

PPM-8082-1

Lot Issue Date:

17-Apr-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 30-Nov-2029

Component Name	Concentrati	оπ	Uncertainty	CAS#	Analyte Lot
Aroclor 1016	1004	±	5 μg/mL	012674-11-2	NT01016
Aroclor 1260	1004	±	5 μg/mL	011096-82-5	NT01023

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Page: 1 of 2

CSD-QA-015.2

ISO 17025 Cert No. AT-1937



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois QMS Representative



ISO 17034 Cert No. AR-1936 RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321
Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.2

ISO 17025 Cert No. AT-1937 This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

32039 Catalog No.:

Lot No.: A0198397

Description:

Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

24 A 0123 72 1/3/24

Container Size:

Expiration Date:

Handling:

2 mL

Pkg Amt: > 1 mL

This product contains PCBs. August 31, 2029

Ambient Ship:

25°C nominal

Storage:

CERTIFIED VALUES

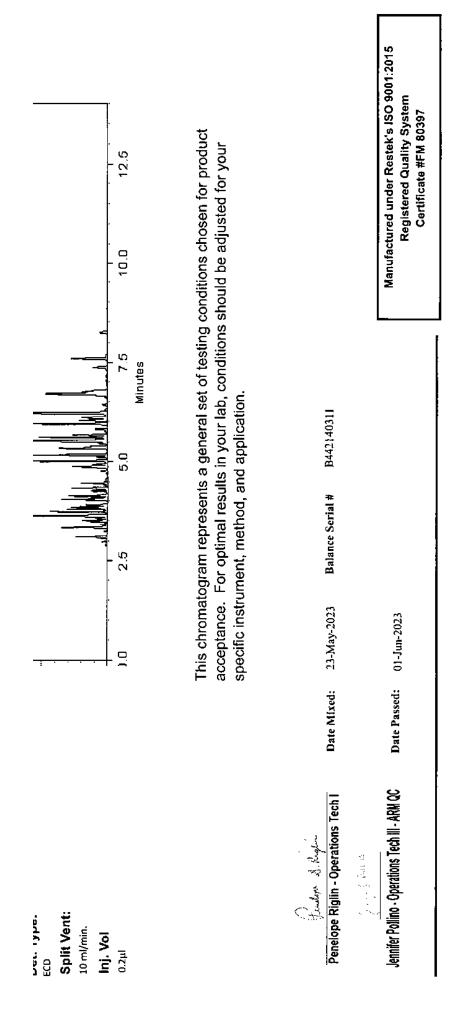
Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1016	12674-11-2 07	07	%	% 1,001.0 μg/mL	+/- 55.5375
2	Aroclor 1260	11096-82-5 1348808	1348808	%	% 1,005.4 µg/mL	+/- 55.7789

* Expanded Uncertainty displayed in same units as Grav. Conc.

Hexane Solvent:

110-54-3 CAS#

%66 Purity



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

May 23, 2024

Jeff Ahrens Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/30/2024. The results are tabulated on the attached pages for the following client designated project:

NCSUPH

The reference number for these samples is EMSL Order #: AC15369 . Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact the lab at 856-858-4800.

MM S Owen McKenna Laboratory Manager or other approved signatory

EMSL Order ID: 012415369 LIMS Reference ID: AC15369

EMSL Customer ID: GSCH75

Table of Contents

Cover	1
Case Narrative	4
Certifications	7
Notes And Definitions	8
Documents	9
Fraction (AROCLOR)	13
Sample Data (EPA TO-10A)	14
Sample Results (AC15369-01)	15
Sample Results (AC15369-02)	18
Sample Results (AC15369-03)	21
Sample Results (AC15369-04)	24
Sample Results (AC15369-05)	27
Sample Results (AC15369-06)	30
Sample Results (AC15369-07)	33
Sample Results (AC15369-08)	36
Sample Results (AC15369-09)	39
Sample Results (AC15369-10)	42
QC Data Summary (EPA TO-10A)	45
Surrogate Summary (BCD2253)	46
LCS (BCD2253)	47
Blank Summary (BCD2253)	48
Calibration Summary (EPA TO-10A)	50
Calibration (AA40009)	51
Calibration Raw Data (AA40009)	63
CCV Summary (SCA0465)	96

Table of Contents (continued)

CCV Summary (SCE0475)	99
QC Data Summary (EPA TO-10A)	115
QC Summary (BCD2253)	127
Standard Traceability	149



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168 (704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012415369 LIMS Reference ID: AC15369 EMSL Customer ID: GSCH75

Project Number: NCSUPH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 04/30/2024 09:30

 Reported:
 05/23/2024 10:48

Work Order Case Narrative

Project: NCSUPH Workorder: AC15369

This report contains the analytical data for the analysis of 10 samples, and are listed below.

Sample Name	Laboratory ID	Sample Date
A-01-216-042424	AC15369-06	04/25/24 18:58
A-02-317F-042424	AC15369-07	04/25/24 19:08
A-09-402G-042424	AC15369-08	04/26/24 16:42
A-11-209-042424	AC15369-04	04/25/24 18:53
A-12-228-042424	AC15369-05	04/25/24 19:02
A-13-106-042424	AC15369-01	04/25/24 18:42
A-15-117-042424	AC15369-03	04/25/24 18:48
Blank-01-117-042424	AC15369-10	04/25/24 18:48
DUP-01-106-042424	AC15369-02	04/25/24 18:42
DUP-02-402G-042424	AC15369-09	04/26/24 16:43

Sample Receipt

The samples were received 04/30/24 09:30 and in good condition unless listed below. The temperature of the cooler at reception was

<u>Cooler</u> <u>Temp C°</u> Default Cooler 10.0

Report Revision 1

Replaces report from 05/14/2024

Report amended. Reported aroclors have been revised.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850 jahrens@geosyntec.com EMSL Order ID: 012415369 LIMS Reference ID: AC15369 EMSL Customer ID: GSCH75

NCSUPH

Project Number: Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 04/30/2024 09:30

 Reported:
 05/23/2024 10:48

Analysis Case Narrative

Analysis list:

<u>Sample</u>	Method List
AC15369-01	EPA TO-10A
AC15369-02	EPA TO-10A
AC15369-03	EPA TO-10A
AC15369-04	EPA TO-10A
AC15369-05	EPA TO-10A
AC15369-06	EPA TO-10A
AC15369-07	EPA TO-10A
AC15369-08	EPA TO-10A
AC15369-09	EPA TO-10A
AC15369-10	EPA TO-10A

Method Reference

USEPA: Compendium TO-10A, Determination Of Pesticides And Polychlorinated Biphenyls In Ambient Air Using Low Volume Polyurethane Foam (PUF) Sampling Followed By Gas Chromatographic/Multi-Detector Detection (GC/MD), January 1999, (EPA/625/R-96/010b).

Holding Times:

All holding times were met.

Sample Dilutions:

<u>Analyzed</u>	Dilution
No Dilutions	
	No Dilutions

Initial Calibration:

All acceptance criteria were met.

Initial Calibration Verification Standard (ICVS)- Second Source:

All acceptance criteria were met.

Laboratory Control Samples (LCS):

All acceptance criteria were met.

Continuing Calibration Verification Standard (CCVS):

All acceptance criteria were met.

Method Blanks (MB):

<u>Sample</u> <u>Analysis</u> <u>Analyte</u> <u>Qualifier</u> <u>Description</u>

BCD2253-BLK1 01-PCB-TO-10A Decachlorobiphenyl [2C] S Surrogate recovery is outside the method



EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75] 1300 S Mint Street, Suite 300

Charlotte, NC 28203-4168 (704) 227-0850

jahrens@geosyntec.com

Project Number: NCSUPH

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 04/30/2024 09:30

 Reported:
 05/23/2024 10:48

EMSL Order ID: 012415369

LIMS Reference ID: AC15369

EMSL Customer ID: GSCH75

control limits.

BCD2253-BLK2 01-PCB-TO-10A Decachlorobiphenyl [2C] S Surrogate recovery is outside the method control limits. BCD2253-BLK2 01-PCB-TO-10A Tetrachloro-m-xylene [2C] S Surrogate recovery is outside the method control limits. BCD2253-BLK1 01-PCB-TO-10A Tetrachloro-m-xylene [2C] S Surrogate recovery is outside the method control limits.

Samples:

<u>Samples:</u>				
Sample	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>Description</u>
AC15369-03	01-PCB-TO-10A	Decachlorobiphenyl	S	Surrogate recovery is outside the method
control limits.				
AC15369-03	01-PCB-TO-10A	Decachlorobiphenyl [2C]	S	Surrogate recovery is outside the method
control limits.				
AC15369-03	01-PCB-TO-10A	Tetrachloro-m-xylene [2C]	S	Surrogate recovery is outside the method
control limits.				
AC15369-10	01-PCB-TO-10A	Decachlorobiphenyl	S	Surrogate recovery is outside the method
control limits.				
AC15369-10	01-PCB-TO-10A	Decachlorobiphenyl [2C]	S	Surrogate recovery is outside the method
control limits.				
AC15369-10	01-PCB-TO-10A	Tetrachloro-m-xylene	S	Surrogate recovery is outside the method
control limits.				
AC15369-10	01-PCB-TO-10A	Tetrachloro-m-xylene [2C]	S	Surrogate recovery is outside the method
control limits.				

EMSL Analytical, Inc. certifies that this data package is in compliance with the terme and conditions of this contract, both technically and for completeness, for other thatn the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer ---readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature

Ch MM \$

Owen McKenna Laboratory Manager or other approved signatory

Certified Analyses included in this Report

Analyte	CAS #	Certifications	
EPA TO-10A in Tubes			
Aroclor-1016	12674-11-2	NJDEP	
Aroclor-1221	11104-28-2	NJDEP	
Aroclor-1232	11141-16-5	NJDEP	
Aroclor-1242	53469-21-9	NJDEP	
Aroclor-1248	12672-29-6	NJDEP	
Aroclor-1254	11097-69-1	NJDEP	
Aroclor-1260	11096-82-5	NJDEP	
Aroclor-1262	37324-23-5	NJDEP	
Aroclor-1268	11100-14-4	NJDEP	

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on www.emsl.com for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974

EMSL-CIN-01

Attention: Jeff Ahrens

Geosyntec Consultants of NC [GSCH75]

1300 S Mint Street, Suite 300 Charlotte, NC 28203-4168

(704) 227-0850

jahrens@geosyntec.com

EMSL Order ID: 012415369 LIMS Reference ID: AC15369 EMSL Customer ID: GSCH75

Project Number:

Customer PO:

 EMSL Sales Rep:
 Emily Stressman

 Received:
 04/30/2024 09:30

 Reported:
 05/23/2024 10:48

NCSUPH

Notes and Definitions

Item	Definition
S	Surrogate recovery is outside the method control limits.
ND	Non Detect. This notation would be used in the results column in lieu of a "U" qualifier.
U	Compound was analyzed for but not detected at a listed and appropriately adjusted reporting level.
J (Target)	Concentration estimated between Reporting Limit and MDL.
J	Estimated value reported below adjusted reporting limit for target compounds or estimating a concentration for TICs where a 1:1 response is assumed
В	Compound found in associated method blank as well as in the sample.
E	Estimated value exceeding upper calibration range of instrument. Ethanol and isopropyl alcohol are not specifically targeted to dilute within calibration range.
D	Compound reported from additional diluted analysis.
N	indicates presumptive evidence of a compound based on library search match.

Environmental Chemistry - Sampling Event Chain of Custody

EMSL Analytical, Inc. Cinnaminson, NJ 08077 200 Route 130 North

Other (Describe Above) EMAIL: EnvChemistry2@EMSL.com 1 Day Underline State Reporting Required? Residential (Non-Taxable) Comments PHONE: (800) 220-3675 10 2 Days No. of Samples in Shipment: Country: Yes State of Connecticut (CT) must select project location: 3 Days Field Temp. Test Time Excel List Test(s) Needed (Write in test below, then check on sample line:) Commercial (Taxable) Company Name: Same as Customer Information 4 Days Purchase Order Sample(s) Temperature Upon Receipt (LAB ONLY) Field Temp. Deg.C Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) ✓ Hzresults EDD Field PH Test Time 1 Week Field PH PWS ID: The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: Sample Condition Upon Receipt. S Reduced Deliverables t 189 US State where samples collected: NC Email(s) for Invoice: ACL For Sorder Number / Lab Use Only City, State, Zip: Street Address Billing Contact £ 150 Received by: Yes Test 2: Other (Specify) Billing Information PCB Method TO-10A 1 1 Samples Received Chilled? 7 Date/Time: 04/29/2024: 1400 Results and QC Describe below in Special Instructions Preservative Country: USA å 3 H2SO4 4 ICE none **2 HNO3** none none Other 2 Weeks none Sampled By Signature: Yes A=Air SL=Sludge 903563 Results Only CLIENT Matrix W=Water 0=Other S=Soil Standard Turn-Around-Time: 7 If Yes, for NPDES? 04/25/2024: 1842 04/25/2024: 1842 04/25/2024:1848 A 04/25/2024:1853 A Email(s) for Report jahrens@geosyntec.com P Date / Time Collected Geosyntec Consultans 203 Charlotte, NC, 28203 1300 S. Mint Street EMSL 704-227-0840 7 7 9 N Grab Jeff Ahrens Comp Reporting Requirements: 3 Relinquished by: Marc Webb Samples Collected by (Check One): Yes A-15-117-042424 DUP-01-106-042424 A-11-209-042424 V A-13-106-042424 Name/No: NCSUPH Turn-Around-Time (TAT) INC. Client Sample ID EMSL LIMS Project ID: EMSL ANALYTICAL, Company Name: Sampled By Name: Method of Shipment: City, State, Zip: Street Address: Contact Name Customer ID: Compliance? Samples for Phone: Customer Information

Relinquished by

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this L

controlled Document - COC-80 Chemistry Sampling Event R2 02/26/2021

10.0 C Page 1 of 2

of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by the

Received by:

Date/Time

tronic signature.

Environmental Chemistry - Sampling Event

Chain of Custody

EMSI, Order Number / Lab Use Only

EMSL ANALYTICAL, INC.

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077 PHONE: (800) 220-3675 EMAIL: EnvChemistry2@EMSL.com

Comments Field Temp. Test Time List Test(s) Needed (Write in test below, then check on sample line:) Field Temp. Deg.C Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Field PH Test Time Field PH AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody do Sample Condition Upon Receipt Test 4: Received by: Est 3: Received by: 1 7 7 7 PCB Method TO-10A 1 7 7 Date/Time: 04/29/2024: 1400 Test 1: Describe in Special Instructions Preservative none none none none none none HCL HNO3 H2SO4 ICE Other W=Water S=Soil A=Air SL=Sludge O=Other Matrix Date/Time . 1643 **A** X V V V X 1848 Date / Time Collected 04/26/2024 : 1902 1858 5/2024 1642 04/25/2024 illed Document - COC-80 Chemistry Sampling Event R2 02/26/202 7 7 7 Grab Comp Relinquished by: Marc Webb A-01-216-042424 A-02-317F-042424 Blank-01-117-042424 A-12-228-042424 A-09-402G-042424 DUP-02-402G-042424 Client Sample ID Method of Shipment: elinquished by

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



Phone: 843-958-8150 Direct: 843-480-4009 Cell (843) 259-9734 Toll Free: 888-958-8170

Conduct Field Surveys From Your Smart Device Today! Download EMSL's APP: iTunes App Store - Apple or Google Play

Resources: LABConnectTM | Order Products | Free Webinars | Additional Resources | EMSL.tv

Connect With Us:







"This email may contain privileged and confidential information and is solely for the use of the sender's intended recipient(s). If you are not the intended recipient of this communication, you are hereby notified that any unauthorized review, use, dissemination, distribution, downloading, or copying of this communication is strictly prohibited. If you received this email in error, please notify the sender by reply email and delete all copies and attachments. Thank you."

From: Marc Webb < Marc. Webb@Geosyntec.com>

Sent: Thursday, May 2, 2024 12:59 PM

To: Stressman, Emily < estressman@EMSL.com>

Subject: Air Sample Sampling Times

[EXTERNAL E-MAIL]

Hi Emily,

Can you provide the following table to the lab that displays our air sample IDs, pre/post pump flow rates, sampling time, and sample volume (the volume uses the average of the pre and post flow check). Feel free to have the lab check our math:

Sample ID	Pre-Flow (L/min)	Post-Flow (L/min)	Total Sampling Time (min)	Total Sample Volume (L)
A-13-106-042424	5	4.92	1440	7142.4
DUP-01-106-042424	5.15	5.07	1440	7358.4
A-15-117-042424	5.22	5.17	1440	7480.8
A-11-209-042424	5.12	5.08	1440	7344
A-12-228-042424	5.21	5.17	1440	7473.6
A-01-216-042424	5.21	5.17	1440	7473.6
A-02-317F-042424	5.3	5.24	1440	7588.8
A-10-400-042424	5.2	5.17	1440	7466.4
A-09-402G-042624	5.16	5.1	1440	7387.2
DUP-02-402G-042624	5.24	5.2	1440	7516.8
A-07-510E-042424	5.21	5.19	1440	7488
A-08-526-042424	5.25	5.17	1440	7502.4
A-05-608J-042424	5.18	5.09	1440	7394.4
A-06-635-042424	5.13	5.09	1440	7358.4
A-04-714B-042424	5.14	5.16	1440	7416
A-03-742-042424	5.24	5.2	1440	7516.8

DUP-03-742-042424	5.16	5.1	1440	7387.2
A-14-ROOF-042424	5.26	5.25	1440	7567.2
Blank-01-117-042424	N/A	N/A	1440	passive air flow only, no pump

Thanks

Marc Webb, PhD
Senior Staff Professional
Geosyntec
consultants

engineers | scientists | innovators

2501 Blue Ridge Road, Suite 430 Raleigh, NC 27607

Office: (919) 424-1856 Mobile: (919) 943-6697 www.geosyntec.com

Geosyntec Consultants, Inc.¹
Geosyntec Consultants of NC, P.C.²

1 – Services Outside of North Carolina

2 - Services Inside North Carolina

This electronic mail message contains information that (a) is or may be LEGALLY PRIVILEGED, CONFIDENTIAL, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) is intended only for the use of the Addressee(s) named herein. If you are not the intended recipient, an addressee, or the person responsible for delivering this to an addressee, you are hereby notified that reading, using, copying, or distributing any part of this message is strictly prohibited. If you have received this electronic mail message in error, please contact us immediately and take the steps necessary to delete the message completely from your computer system.

AROCLOR

SAMPLE DATA

A-13-106-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-01 File ID: L14382.D

Sampled: 04/25/24 18:42 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 21:02

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00507	0.00700	
11104-28-2	Aroclor-1221		0.00507	0.00700	
11141-16-5	Aroclor-1232		0.00507	0.00700	
53469-21-9	Aroclor-1242		0.00507	0.00700	
12672-29-6	Aroclor-1248		0.00133	0.00700	
11097-69-1	Aroclor-1254		0.00133	0.00700	
11096-82-5	Aroclor-1260		0.00133	0.00700	
37324-23-5	Aroclor-1262	0.0766	0.00133	0.00700	
11100-14-4	Aroclor-1268		0.00133	0.00700	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14382.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:02 pm

Operator : AxJ/KC Sample : AC15369-01

Misc :

ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:51:21 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	Decachlor	3.358 10.000 Range	60 - 1 12.292	56754022	ery = 110.0E6	65.17%	6.528 65.28% 7.276 72.76%
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
36) L7 37) L7 Sum Average Sum Average	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1262 Aroclor-1262 Aroclor-1268 Aroclor-1268	7.025 7.399 7.937 8.275 8.699	8.425 8.715 9.428 9.770 10.117	42384255 33581800 24827566 26653725 167.8E6	0	90.136 70.268 49.148 41.344 22.806 273.702 54.740 N.D. 0.000	92.244 73.879 48.150 42.511 23.444 280.228 56.046 N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000
					 -		

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\gcms\1\data\L240502\

Data File : L14382.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:02 pm

Operator : AxJ/KC Sample : AC15369-01

Misc :

ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:51:21 2024

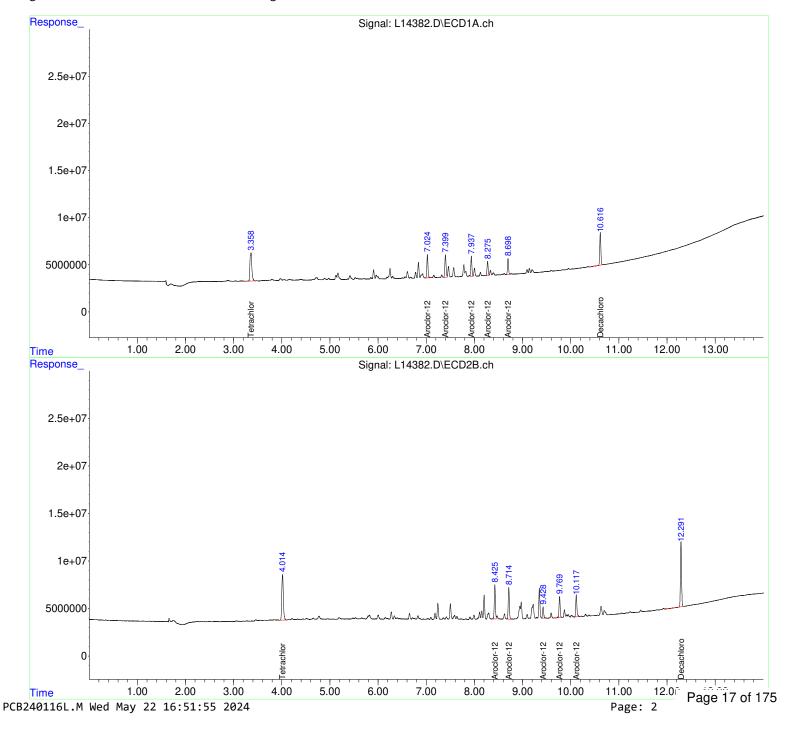
Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



DUP-01-106-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-02 File ID: L14383.D

Sampled: 04/25/24 18:42 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 21:18

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00492	0.00679	
11104-28-2	Aroclor-1221		0.00492	0.00679	
11141-16-5	Aroclor-1232		0.00492	0.00679	
53469-21-9	Aroclor-1242		0.00492	0.00679	
12672-29-6	Aroclor-1248		0.00130	0.00679	
11097-69-1	Aroclor-1254		0.00130	0.00679	
11096-82-5	Aroclor-1260		0.00130	0.00679	
37324-23-5	Aroclor-1262	0.0905	0.00130	0.00679	
11100-14-4	Aroclor-1268		0.00130	0.00679	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14383.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:18 pm

Operator : AxJ/KC Sample : AC15369-02

Misc :

ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:52:10 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
Suct	om Monitoning	Compounds					
	em Monitoring Tetrachlo		4.017	111.3E6	149.1F6	8.765	8.993
		10.000 Range					89.93%
-	Decachlor	_			-	9.164	9.734
Spiked	d Amount	10.000 Range	60 - 1	20 Recove	ery =	91.64%	97.34%
Targe	et Compounds						
	Aroclor-1016			0	0	N.D.	N.D.
Average	Aroclor-1016					0.000	0.000
	Aroclor-1221			0	0	N.D.	N.D.
Average	Aroclor-1221					0.000	0.000
	Aroclor-1232			0	0	N.D.	N.D.
Average	Aroclor-1232					0.000	0.000
Sum	Aroclor-1242			0	0	N.D.	N.D.
Average	Aroclor-1242					0.000	0.000
Sum	Aroclor-1248			0	0	N.D.	N.D.
Average	Aroclor-1248					0.000	0.000
	Aroclor-1254			0	0	N.D.	N.D.
Average	Aroclor-1254					0.000	0.000
	Aroclor-1	7.025	8.426		71173780		112.864
•	Aroclor-1		8.715		65101379	84.729	89.836
	Aroclor-1		9.429		23135580	60.061	60.750
	Aroclor-1		9.771		46919831	51.652	54.145
	Aroclor-1		10.119		48468763		
	Aroclor-1262			205.0E6	254.8E6	332.897	
Average	Aroclor-1262					66.579	69.333
	Aroclor-1268			0	0	N.D.	N.D.
Average	Aroclor-1268					0.000	0.000
	Aroclor-1260			0	0	N.D.	N.D.
Average	Aroclor-1260					0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\gcms\1\data\L240502\

Data File : L14383.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:18 pm

Operator : AxJ/KC Sample : AC15369-02

Misc :

ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:52:10 2024

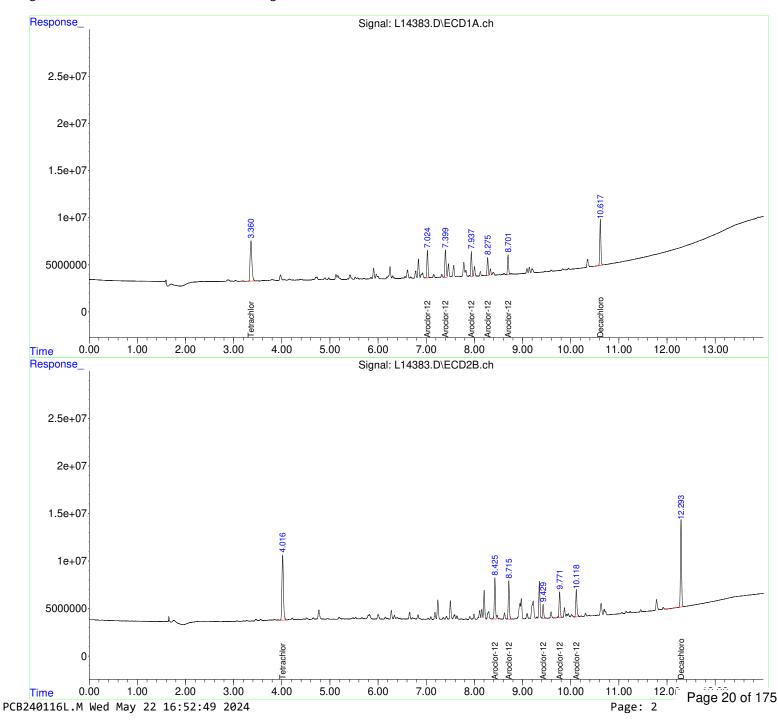
Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



A-15-117-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-03 File ID: L14384.D

Sampled: 04/25/24 18:48 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 21:34

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00484	0.00668	
11104-28-2	Aroclor-1221		0.00484	0.00668	
11141-16-5	Aroclor-1232		0.00484	0.00668	
53469-21-9	Aroclor-1242		0.00484	0.00668	
12672-29-6	Aroclor-1248		0.00127	0.00668	
11097-69-1	Aroclor-1254		0.00127	0.00668	
11096-82-5	Aroclor-1260		0.00127	0.00668	
37324-23-5	Aroclor-1262	0.104	0.00127	0.00668	
11100-14-4	Aroclor-1268		0.00127	0.00668	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14384.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:34 pm

Operator : AxJ/KC Sample : AC15369-03

Misc :

ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:53:02 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

System Monitoring	Compounds
-------------------	-----------

1) SA Tetrachlo... 3.360 4.018 151.9E6 204.7E6 11.965 12.342 Spiked Amount 10.000 Range 60 - 120 Recovery = 119.65% 123.42%#
2) SA Decachlor... 10.617 12.293 105.3E6 207.2E6 12.591 13.711 Spiked Amount 10.000 Range 60 - 120 Recovery = 125.91%# 137.11%#

Targ	et Compounds						
Sum	Aroclor-1016			0	0	N.D.	N.D.
Average	Aroclor-1016					0.000	0.000
Sum	Aroclor-1221			0	0	N.D.	N.D.
Average	Aroclor-1221					0.000	0.000
	Aroclor-1232			0	0	N.D.	N.D.
Average	Aroclor-1232					0.000	0.000
Sum	Aroclor-1242			0	0	N.D.	N.D.
Average	Aroclor-1242					0.000	0.000
Sum	Aroclor-1248			0	0	N.D.	N.D.
Average	Aroclor-1248					0.000	0.000
Sum	Aroclor-1254			0	0	N.D.	N.D.
Average	Aroclor-1254					0.000	0.000
,	Aroclor-1	7.025	8.426		86561488	131.251	137.266
,	Aroclor-1	7.398	8.715		75864876	98.470	104.689
,	Aroclor-1	7.937			26333670	69.654	69.148
,	Aroclor-1	8.276	9.771	34978789	51954261	58.248	59.954
37) L7	Aroclor-1	8.700	10.118	36282068	52738556	31.045	31.631
Sum	Aroclor-1262			237.0E6	293.5E6	388.668	402.687
Average	Aroclor-1262					77.734	80.537
Sum	Aroclor-1268			0	0	N.D.	N.D.
Average	Aroclor-1268					0.000	0.000
	Aroclor-1260			0	0	N.D.	N.D.
Average	Aroclor-1260					0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\gcms\1\data\L240502\

Data File : L14384.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:34 pm

Operator : AxJ/KC Sample : AC15369-03

Misc :

ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:53:02 2024

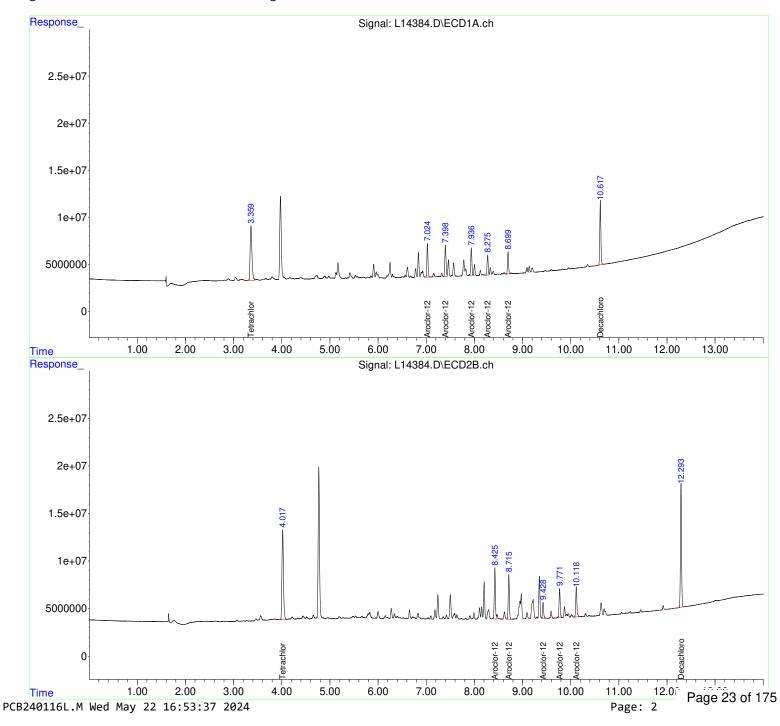
Quant Method: C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



A-11-209-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-04 File ID: L14385.D

Sampled: 04/25/24 18:53 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 21:50

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00493	0.00681	
11104-28-2	Aroclor-1221		0.00493	0.00681	
11141-16-5	Aroclor-1232		0.00493	0.00681	
53469-21-9	Aroclor-1242		0.00493	0.00681	
12672-29-6	Aroclor-1248		0.00130	0.00681	
11097-69-1	Aroclor-1254		0.00130	0.00681	
11096-82-5	Aroclor-1260		0.00130	0.00681	
37324-23-5	Aroclor-1262	0.125	0.00130	0.00681	
11100-14-4	Aroclor-1268		0.00130	0.00681	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14385.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:50 pm

Operator : AxJ/KC : AC15369-04 Sample

Misc

ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:53:52 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Compound

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25

RT#2

Resp#1

Resp#2

ug/L

ug/L

RT#1

	Compound	VI#T	NI#Z	KeSp#1	Resp#2	ug/L	ug/L
Syste	em Monitoring	Compounds					
1) SA	Tetrachlo	3.361	4.018	102.8E6	134.3E6	8.096	8.099
Spiked	d Amount 1	10.000 Range	60 - 1	20 Recove	ery =	80.96%	80.99%
	Decachlor			65535341			8.364
Spiked	d Amount 1	10.000 Range	60 - 1	20 Recove	ery =	78.36%	83.64%
Targe	et Compounds						
Sum	Aroclor-1016			0	0	N.D.	N.D.
Average	Aroclor-1016					0.000	0.000
Sum	Aroclor-1221			0	0	N.D.	N.D.
Average	Aroclor-1221					0.000	0.000
Sum	Aroclor-1232			0	0	N.D.	N.D.
Average	Aroclor-1232					0.000	0.000
Sum	Aroclor-1242			0	0	N.D.	N.D.
Average	Aroclor-1242					0.000	0.000
Sum	Aroclor-1248			0	0	N.D.	N.D.
Average	Aroclor-1248					0.000	0.000
Sum	Aroclor-1254			0	0	N.D.	N.D.
Average	Aroclor-1254					0.000	0.000
33) L7	Aroclor-1	7.025	8.425	65700528	99036306	146.710	157.048
34) L7	Aroclor-1	7.399	8.715	69849837	89369691	115.803	123.325
35) L7	Aroclor-1	7.937	9.427	57783783	32296851	84.569	84.806
36) L7	Aroclor-1	8.275	9.771	43407777	65513200	72.284	
37) L7	Aroclor-1	8.699	10.118	45275048	66529610	38.740	39.902
Sum	Aroclor-1262			282.0E6	352.7E6	458.105	480.681
Average	Aroclor-1262					91.621	96.136
Sum	Aroclor-1268			0	0	N.D.	N.D.
Average	Aroclor-1268					0.000	0.000
Sum	Aroclor-1260			0	0	N.D.	N.D.
Average	Aroclor-1260					0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\gcms\1\data\L240502\

Data File : L14385.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 9:50 pm

Operator : AxJ/KC Sample : AC15369-04

Misc

ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:53:52 2024

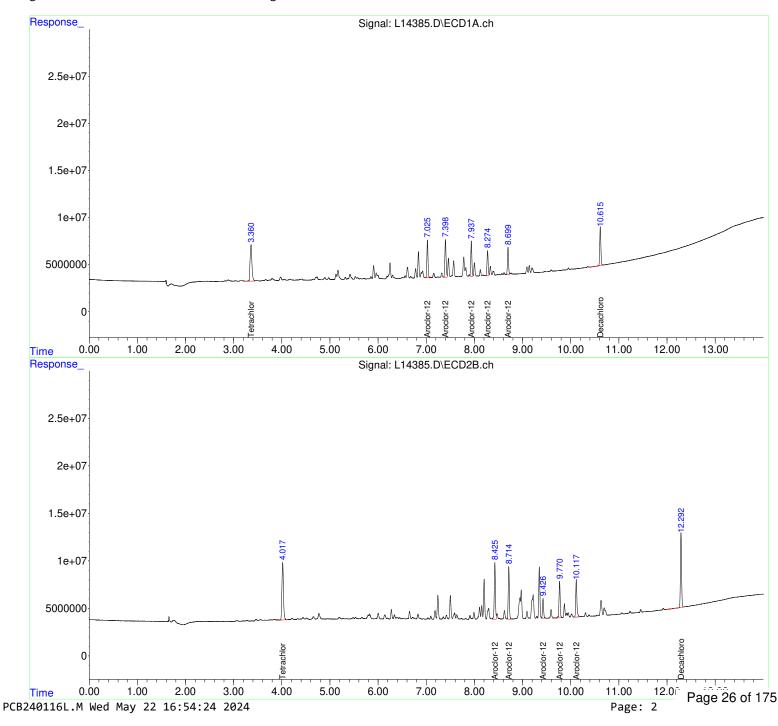
Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



A-12-228-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-05 File ID: L14386.D

Sampled: 04/25/24 19:02 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 22:06

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00484	0.00669	
11104-28-2	Aroclor-1221		0.00484	0.00669	
11141-16-5	Aroclor-1232		0.00484	0.00669	
53469-21-9	Aroclor-1242		0.00484	0.00669	
12672-29-6	Aroclor-1248		0.00128	0.00669	
11097-69-1	Aroclor-1254		0.00128	0.00669	
11096-82-5	Aroclor-1260		0.00128	0.00669	
37324-23-5	Aroclor-1262	0.117	0.00128	0.00669	
11100-14-4	Aroclor-1268		0.00128	0.00669	

^{*} Values outside of QC limits

Resp#2 ug/L

9.505

ug/L

8.909

150.765

78.318

67.371

36.664

87.312

N.D.

N.D.

0.000

0.000

117.920

79.928

69.549

37.362

455.523

91.105

N.D.

N.D.

0.000

0.000

Data Path : C:\gcms\1\data\L240502\

Data File : L14386.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 10:06 pm

Operator : AxJ/KC : AC15369-05 Sample

Misc

ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:54:37 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Compound

33) L7 Aroclor-1...

36) L7 Aroclor-1...

Sum Aroclor-1262

Sum Aroclor-1268

Sum Aroclor-1260

37) L7 Aroclor-1...

Average Aroclor-1262

Average Aroclor-1268

Average Aroclor-1260

34) L7 Aroclor-1... 7.398

35) L7 Aroclor-1... 7.937

System Monitoring Compounds

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25

RT#2

Resp#1

8.425 64073035 95074434 143.076

8.715 67033830 85453536 111.134

267.9E6 333.5E6 436.562

9.428 53512700 30439044

10.118 42849180 62293861

8.275 9.771 40457331 60268131

RT#1

7.025

8.700

1) SA Tetrachlo... 3.361 4.018 120.7E6 147.7E6 10.000 Range 60 - 120 Recovery = 95.05% 89.09% Spiked Amount 2) SA Decachlor... 10.617 12.293 75885776 151.9E6 9.074 10.052 10.000 Range 60 - 120 Recovery = 90.74% Spiked Amount 100.52% Target Compounds Sum Aroclor-1016 N.D. N.D. Average Aroclor-1016 0.000 0.000 Sum Aroclor-1221 N.D. N.D. Average Aroclor-1221 0.000 0.000 Sum Aroclor-1232 N.D. N.D. Average Aroclor-1232 0.000 0.000 Sum Aroclor-1242 N.D. N.D. Average Aroclor-1242 0.000 0.000 Sum Aroclor-1248 N.D. N.D. 0.000 0.000 Average Aroclor-1248 Sum Aroclor-1254 N.D. N.D. Average Aroclor-1254 0.000 0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\gcms\1\data\L240502\

Data File : L14386.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 10:06 pm

Operator : AxJ/KC Sample : AC15369-05

Misc :

ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:54:37 2024

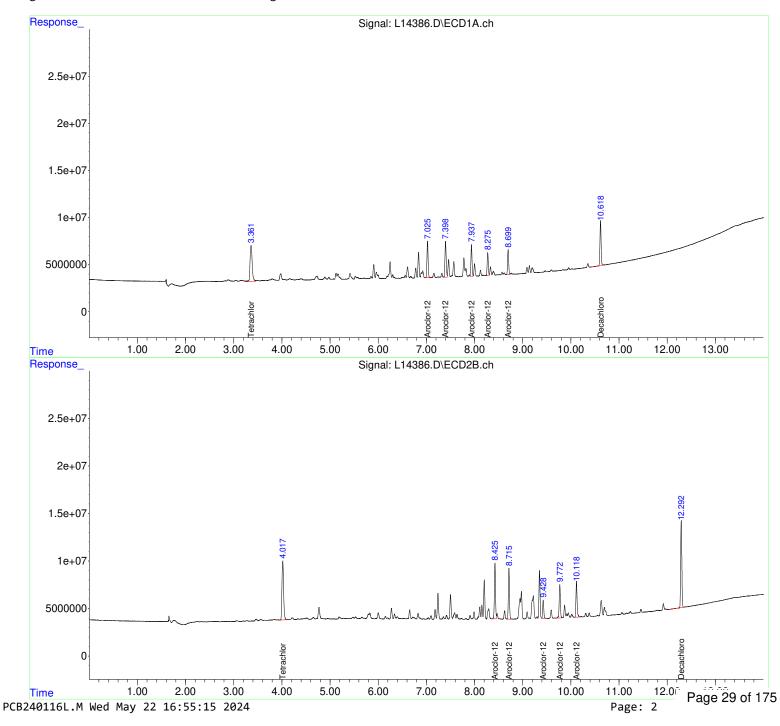
Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



A-01-216-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-06 File ID: L14387.D

Sampled: 04/25/24 18:58 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 22:22

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00484	0.00669	
11104-28-2	Aroclor-1221		0.00484	0.00669	
11141-16-5	Aroclor-1232		0.00484	0.00669	
53469-21-9	Aroclor-1242		0.00484	0.00669	
12672-29-6	Aroclor-1248		0.00128	0.00669	
11097-69-1	Aroclor-1254		0.00128	0.00669	
11096-82-5	Aroclor-1260		0.00128	0.00669	
37324-23-5	Aroclor-1262	0.133	0.00128	0.00669	
11100-14-4	Aroclor-1268		0.00128	0.00669	

^{*} Values outside of QC limits

Resp#2 ug/L

99.152

N.D.

N.D.

0.000

0.000

104.440

N.D.

N.D.

0.000

0.000

ug/L

Data Path : C:\gcms\1\data\L240502\

Data File : L14387.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 10:22 pm

Operator : AxJ/KC Sample : AC15369-06

Misc :

ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:55:24 2024

Quant Time: May 22 16:55:24 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

RT#1

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Compound

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

RT#2

Resp#1

System Monitoring Compounds 1) SA Tetrachlo... 3.357 4.015 121.4E6 163.1E6 9.564 9.835 Spiked Amount 10.000 Range 60 - 120 Recovery = 95.64% 98.35% 2) SA Decachlor... 10.617 12.292 82429236 157.8E6 9.856 10.438 10.000 Range 60 - 120 Recovery = 98.56% Spiked Amount 104.38% Target Compounds Sum Aroclor-1016 N.D. N.D. Average Aroclor-1016 0.000 0.000 Sum Aroclor-1221 N.D. N.D. Average Aroclor-1221 0.000 0.000 Sum Aroclor-1232 N.D. N.D. Average Aroclor-1232 0.000 0.000 Sum Aroclor-1242 N.D. N.D. Average Aroclor-1242 0.000 0.000 Sum Aroclor-1248 N.D. N.D. 0.000 0.000 Average Aroclor-1248 Sum Aroclor-1254 N.D. N.D. Average Aroclor-1254 0.000 0.000 33) L7 Aroclor-1... 7.025 8.426 69144452 104.8E6 154.400 166.162 8.715 73567946 94783472 121.967 34) L7 Aroclor-1... 7.398 130.795 35) L7 Aroclor-1... 7.938 9.428 64559050 36432871 94.484 95.666 8.275 9.771 48361263 73369198 80.533 36) L7 Aroclor-1... 84.667 37) L7 Aroclor-1... 8.699 10.118 51858898 74876414 44.373 44.908 Sum Aroclor-1262 307.5E6 384.2E6 495.758 522.198

Average Aroclor-1262

Average Aroclor-1268

Average Aroclor-1260

Sum Aroclor-1268

Sum Aroclor-1260

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\gcms\1\data\L240502\

Data File : L14387.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 10:22 pm

Operator : AxJ/KC Sample : AC15369-06

Misc :

ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:55:24 2024

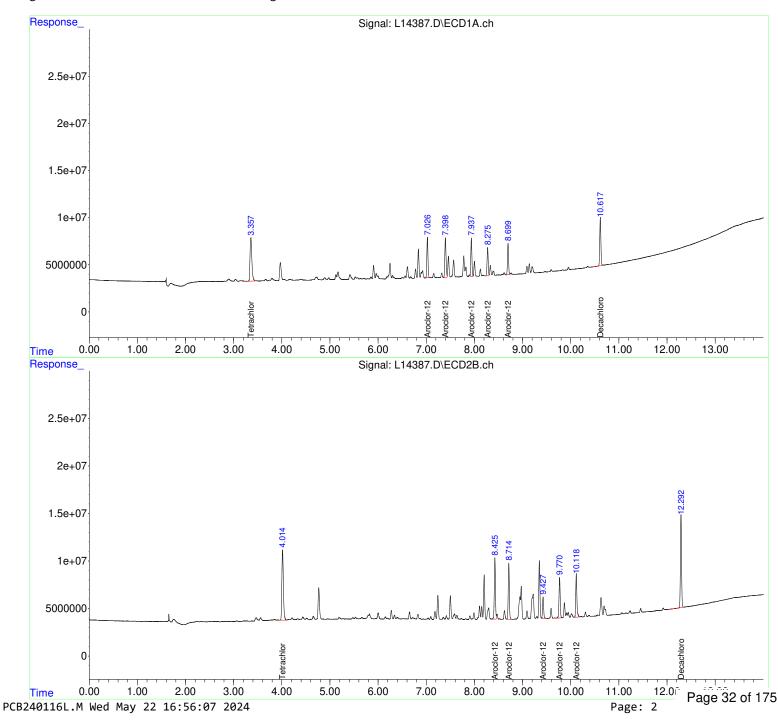
Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



A-02-317F-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-07 File ID: L14389.D

Sampled: 04/25/24 19:08 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 22:55

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00477	0.00659	
11104-28-2	Aroclor-1221		0.00477	0.00659	
11141-16-5	Aroclor-1232		0.00477	0.00659	
53469-21-9	Aroclor-1242		0.00477	0.00659	
12672-29-6	Aroclor-1248		0.00126	0.00659	
11097-69-1	Aroclor-1254		0.00126	0.00659	
11096-82-5	Aroclor-1260		0.00126	0.00659	
37324-23-5	Aroclor-1262	0.109	0.00126	0.00659	
11100-14-4	Aroclor-1268		0.00126	0.00659	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14389.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 10:55 pm

Operator : AxJ/KC : AC15369-07 Sample

Misc

ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:56:30 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spike 2) SA	Decachlor	3.356 10.000 Range	12.292	20 Recove 62012599	120.4E6	80.39%	7.581 75.81% 7.968 79.68%
		· ·			,		
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
34) L7 35) L7 36) L7 37) L7 Sum Average Sum Average	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1262 Aroclor-1262 Aroclor-1268 Aroclor-1268		8.425 8.714 9.427 9.770 10.118	58494681 53984330 41381629 47027321	83777873 74999190 29118863 61550443 67620982 317.1E6	127.321 96.977 79.008 68.910 40.239 412.456 82.491 N.D. 0.000	132.852 103.494 76.461 71.028 40.557 424.392 84.878 N.D. 0.000
Average	Aroclor-1260					0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\gcms\1\data\L240502\

Data File : L14389.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 10:55 pm

Operator : AxJ/KC Sample : AC15369-07

Misc :

ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:56:30 2024

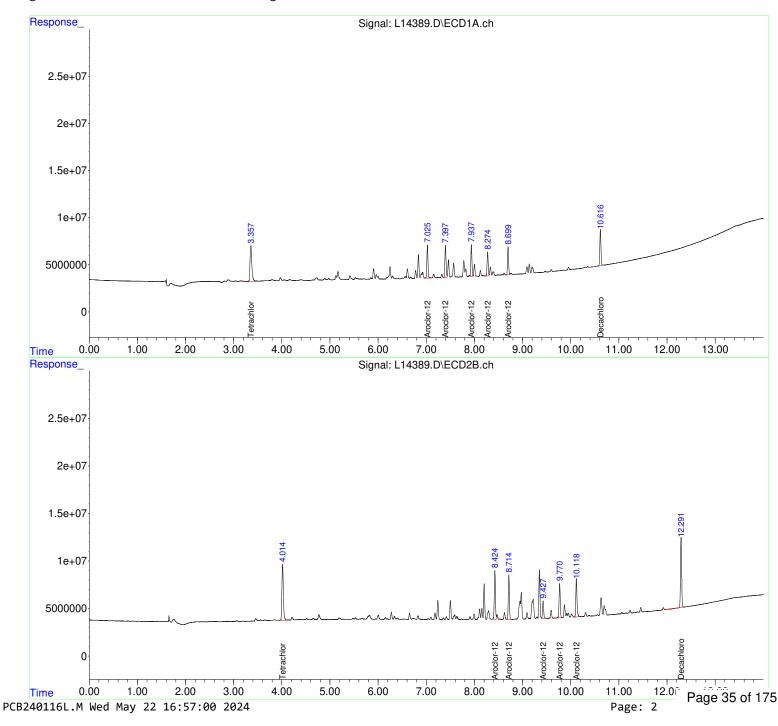
Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



A-09-402G-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-08 File ID: L14390.D

Sampled: 04/26/24 16:42 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 23:11

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
 12674-11-2	Aroclor-1016		0.00490	0.00677	
11104-28-2	Aroclor-1221		0.00490	0.00677	
11141-16-5	Aroclor-1232		0.00490	0.00677	
53469-21-9	Aroclor-1242		0.00490	0.00677	
12672-29-6	Aroclor-1248		0.00129	0.00677	
11097-69-1	Aroclor-1254		0.00129	0.00677	
11096-82-5	Aroclor-1260		0.00129	0.00677	
37324-23-5	Aroclor-1262	0.155	0.00129	0.00677	
11100-14-4	Aroclor-1268		0.00129	0.00677	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502\

Data File : L14390.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:11 pm

Operator : AxJ/KC Sample : AC15369-08

Misc

ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 22 16:57:21 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitoring Compounds					
1) SA Tetrachlo 3.360	4.018	117.6E6	157.3E6	9.265	9.484
Spiked Amount 10.000 Range	60 - 120	Recover	^y =	92.65%	94.84%
 SA Decachlor 10.617 	12.292 8	3062794	164.3E6	9.932	10.870
Spiked Amount 10.000 Range	60 - 120	Recover	^y =	99.32%	108.70%
Target Compounds					
Sum Aroclor-1016		0	0	N.D.	N.D.

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Average	Aroclor-1016					0.000	0.000
Sum	Aroclor-1221			0	0	N.D.	N.D.
Average	Aroclor-1221					0.000	0.000
	Aroclor-1232			0	0	N.D.	N.D.
Average	Aroclor-1232					0.000	0.000
Sum	Aroclor-1242			0	0	N.D.	N.D.
Average	Aroclor-1242					0.000	0.000
Sum	Aroclor-1248			0	0	N.D.	N.D.
Average	Aroclor-1248					0.000	0.000
Sum	Aroclor-1254			0	0	N.D.	N.D.
Average	Aroclor-1254					0.000	0.000
33) L7	Aroclor-1	7.025	8.425	82514969	122.3E6	184.257	193.960
34) L7	Aroclor-1	7.398	8.714	83031274	106.8E6	137.656	147.343
35) L7	Aroclor-1	7.938	9.427	72629163	39817446	106.295	104.554
36) L7	Aroclor-1	8.275	9.770	54552231	82486467	90.842	95.188
37) L7	Aroclor-1	8.699	10.117	60860997	88118563	52.076	52.850
Sum	Aroclor-1262			353.6E6	439.5E6	571.126	593.896
Average	Aroclor-1262					114.225	118.779
Sum	Aroclor-1268			0	0	N.D.	N.D.
Average	Aroclor-1268					0.000	0.000
Sum	Aroclor-1260			0	0	N.D.	N.D.
Average	Aroclor-1260					0.000	0.000

Data Path : C:\gcms\1\data\L240502\

Data File : L14390.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:11 pm

Operator : AxJ/KC Sample : AC15369-08

Misc :

ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:57:21 2024

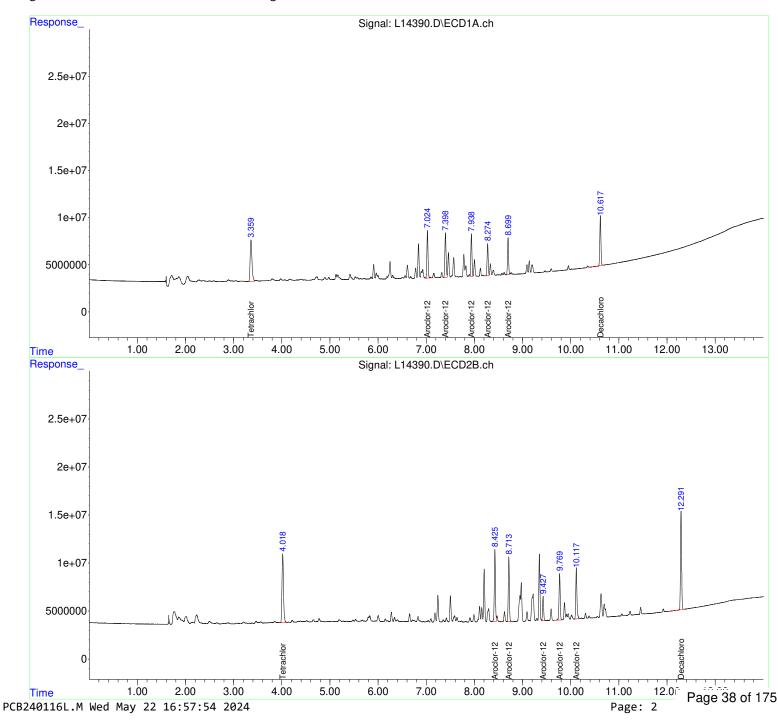
Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0



DUP-02-402G-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-09 File ID: L14391.D

Sampled: 04/26/24 16:43 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 23:27

Solids: Preparation: EPA TO-10A Dilution: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.00482	0.00665	
11104-28-2	Aroclor-1221		0.00482	0.00665	
11141-16-5	Aroclor-1232		0.00482	0.00665	
53469-21-9	Aroclor-1242		0.00482	0.00665	
12672-29-6	Aroclor-1248		0.00127	0.00665	
11097-69-1	Aroclor-1254		0.00127	0.00665	
11096-82-5	Aroclor-1260		0.00127	0.00665	
37324-23-5	Aroclor-1262	0.145	0.00127	0.00665	
11100-14-4	Aroclor-1268		0.00127	0.00665	

^{*} Values outside of QC limits

Resp#2 ug/L

ug/L

Data Path : C:\gcms\1\data\L240502\

Data File : L14391.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:27 pm

Operator : AxJ/KC Sample : AC15369-09

Misc :

ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:58:31 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Compound

Target Compounds

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

RT#1

System Monitoring Compounds

1) SA Tetrachlo... 3.365 4.021 133.5E6 163.1E6 10.518 9.835
Spiked Amount 10.000 Range 60 - 120 Recovery = 105.18% 98.35%

2) SA Decachlor... 10.617 12.292 85807495 164.8E6 10.260 10.906
Spiked Amount 10.000 Range 60 - 120 Recovery = 102.60% 109.06%

RT#2

Resp#1

	ui ge	.c compounds						
		Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
Aver	age	Al-0C101-1016					0.000	0.000
		Aroclor-1221			0	0	N.D.	N.D.
Aver	age	Aroclor-1221					0.000	0.000
		Aroclor-1232			0	0	N.D.	N.D.
Aver	age	Aroclor-1232					0.000	0.000
		Aroclor-1242			0	0	N.D.	N.D.
Aver	age	Aroclor-1242					0.000	0.000
	Sum	Aroclor-1248			0	0	N.D.	N.D.
Aver	age	Aroclor-1248					0.000	0.000
		Aroclor-1254			0	0	N.D.	N.D.
Aver	age	Aroclor-1254					0.000	0.000
33)	L7	Aroclor-1	7.026	8.426	77735681	116.1E6	173.585	184.106
,		Aroclor-1	7.399	8.715			132.285	140.990
		Aroclor-1	7.938	9.428		37881685		99.471
		Aroclor-1	8.276	9.771		79000907		91.166
,		Aroclor-1	8.700	10.118		86458372	50.087	51.855
		Aroclor-1262			337.6E6	421.6E6	544.414	567.588
Aver	age	Aroclor-1262					108.883	113.518
	Sum	Aroclor-1268			0	0	N.D.	N.D.
Aver	age	Aroclor-1268					0.000	0.000
		Aroclor-1260			0	0	N.D.	N.D.
Aver	age	Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502\

Data File : L14391.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:27 pm

Operator : AxJ/KC Sample : AC15369-09

Misc :

ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 16:58:31 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

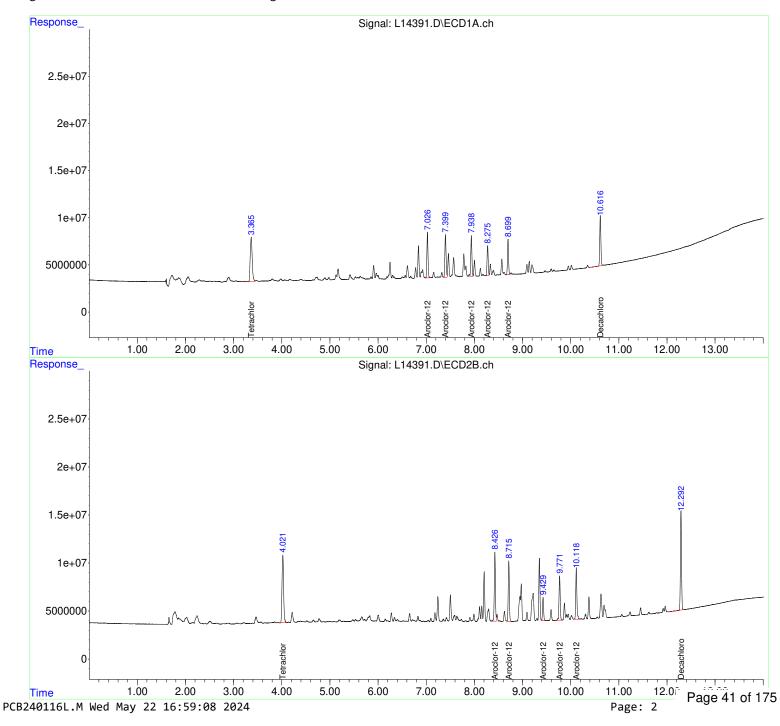
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

Blank-01-117-042424

Laboratory: EMSL-CIN-01 SDG:

Client: Geosyntec Consultants of NC [GSC Project: NCSUPH

Matrix: Tubes Laboratory ID: AC15369-10 File ID: L14392.D

Sampled: 04/25/24 18:48 Prepared: 04/30/24 15:23 Analyzed: 05/02/24 23:43

Solids: Preparation: EPA TO-10A Dilution: 1

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		36.2	50.0	
11104-28-2	Aroclor-1221		36.2	50.0	
11141-16-5	Aroclor-1232		36.2	50.0	
53469-21-9	Aroclor-1242		36.2	50.0	
12672-29-6	Aroclor-1248		9.53	50.0	
11097-69-1	Aroclor-1254		9.53	50.0	
11096-82-5	Aroclor-1260		9.53	50.0	
37324-23-5	Aroclor-1262		9.53	50.0	
11100-14-4	Aroclor-1268		9.53	50.0	
37324-23-5	Aroclor-1262 Aroclor-1268		9.53	50.0	

^{*} Values outside of QC limits

Data Path : C:\gcms\1\data\L240502A\

Data File : L14392.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:43 pm

Operator : AxJ/KC Sample : AC15369-10

Misc :

ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 17:00:04 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed May 22 16:38:45 2024 Response via: Initial Calibration

Integrator: ChemStation

Compound

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitoring Compounds

RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

- 3	J					
 SA Tetrachlo 	. 3.361	4.018	290.0E6 3	312.9E6	22.843	18.869
Spiked Amount	10.000 Range	60 - 120	Recovery	/ =	228.43%#	188.69%#
2) SA Decachlor	. 10.617	12.292	153.2E6 2	293.2E6	18.323	19.398
Spiked Amount	10.000 Range	60 - 120	Recovery	/ =	183.23%#	193.98%#

Targe	et Compounds				
_	Aroclor-1016	0	0	N.D.	N.D.
Average	Aroclor-1016			0.000	0.000
Sum	Aroclor-1221	0	0	N.D.	N.D.
Average	Aroclor-1221			0.000	0.000
Sum	Aroclor-1232	0	0	N.D.	N.D.
	Aroclor-1232	O	Ü	0.000	0.000
rivel age	711 00101 1232			0.000	0.000
Sum	Aroclor-1242	0	0	N.D.	N.D.
Average	Aroclor-1242			0.000	0.000
Cum	Aroclor-1248	0	0	N.D.	N.D.
		Ø	О	0.000	
Average	Aroclor-1248			0.000	0.000
Sum	Aroclor-1254	0	0	N.D.	N.D.
Average	Aroclor-1254			0.000	0.000
Sum	Aroclor-1262	0	0	N.D.	N.D.
Average	Aroclor-1262			0.000	0.000
Sum	Aroclor-1268	0	0	N.D.	N.D.
	Aroclor-1268	Ü	Ü	0.000	0.000
rivel age	711 002101 1200			0.000	0.000
Sum	Aroclor-1260	0	0	N.D.	N.D.
Average	Aroclor-1260			0.000	0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\gcms\1\data\L240502A\

Data File : L14392.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:43 pm

Operator : AxJ/KC Sample : AC15369-10

Misc :

ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 17:00:04 2024

Quant Method : C:\gcms\1\methods\PCB240116L.M

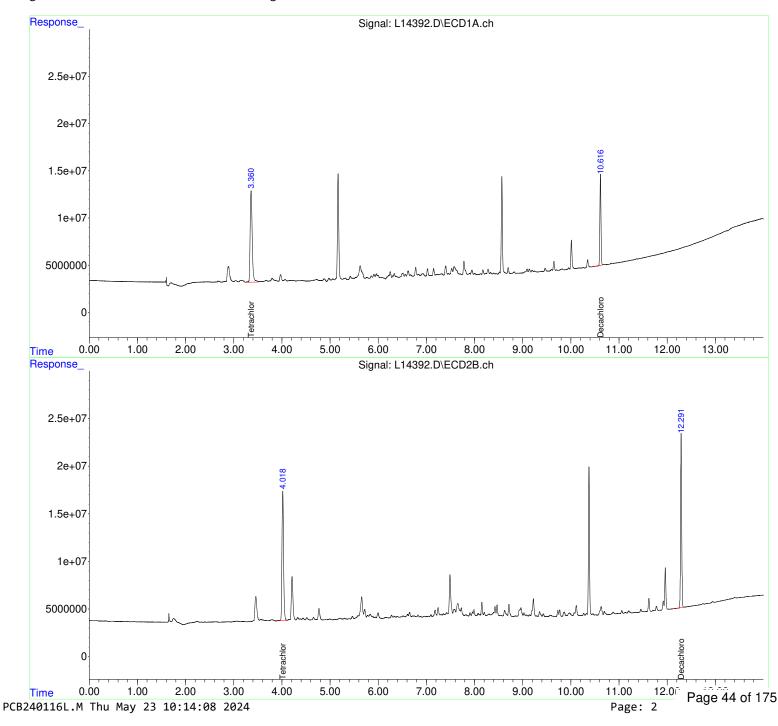
Quant Title : 8082a PCB

QLast Update : Wed May 22 16:38:45 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



QC DATA

2 - FORM II SYSTEM MONITORING COMPOUND SUMMARY EPA TO-10A

Laboratory:EMSL-CIN-01SDG:AC15369Client:Geosyntec Consultants of NC [GSCH75]Project:NCSUPHMatrix:TubesInstrument:GCECD-L

	(60% - 120%)
AC15369-01	73
AC15369-02	97
AC15369-03	137*
AC15369-04	84
AC15369-05	95
AC15369-06	99
AC15369-07	80
AC15369-08	99
AC15369-09	98
AC15369-10	228*
BCD2253-BLK1	120
BCD2253-BLK2	118
BCD2253-BS1	126*
BCD2253-BSD1	95

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-10A

Laboratory: EMSL-CIN-01

Work Order: AC15369

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Matrix: Tubes

Preparation:

Project:

EPA TO-10A

Batch: BCD2253

Laboratory ID:

BCD2253-BS1

Column: 1

Initial/Final:

1 L / 10 mL

ANALYTE	SPIKE ADDED (µg/m³)	LCS CONCENTRATION (µg/m³)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	1000	941	94	70 - 130
Aroclor-1260	1000	955	95	70 - 130

	SPIKE	LCSD	LCSD		QC	LIMITS
ANALYTE	ADDED (μg/m³)	CONCENTRATION (μg/m³)	% REC. #	% RPD #	RPD	REC.
Aroclor-1016	1000	856	86	10	25	70 - 130
Aroclor-1260	1000	872	87	9	25	70 - 130

4 - FORM IV METHOD BLANK SUMMARY

EPA TO-10A

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75] Project: __Master Project-GSCH75

Blank ID: BCD2253-BLK1 Batch: BCD2253 Prepared: 04/30/2024 15:23

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	BCD2253-BS1	L14369.D	17:32
LCS Dup	BCD2253-BSD1	L14370.D	17:48
A-13-106-042424	AC15369-01	L14382.D	21:02
DUP-01-106-042424	AC15369-02	L14383.D	21:18
A-15-117-042424	AC15369-03	L14384.D	21:34
A-11-209-042424	AC15369-04	L14385.D	21:50
A-12-228-042424	AC15369-05	L14386.D	22:06
A-01-216-042424	AC15369-06	L14387.D	22:22
A-02-317F-042424	AC15369-07	L14389.D	22:55
A-09-402G-042424	AC15369-08	L14390.D	23:11
DUP-02-402G-042424	AC15369-09	L14391.D	23:27
Blank-01-117-042424	AC15369-10	L14392.D	23:43

4 - FORM IV METHOD BLANK SUMMARY

EPA TO-10A

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75] Project: __Master Project-GSCH75

Blank ID: BCD2253-BLK2 Batch: BCD2253 Prepared: 04/30/2024 15:23

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	BCD2253-BS1	L14369.D	17:32
LCS Dup	BCD2253-BSD1	L14370.D	17:48
A-13-106-042424	AC15369-01	L14382.D	21:02
DUP-01-106-042424	AC15369-02	L14383.D	21:18
A-15-117-042424	AC15369-03	L14384.D	21:34
A-11-209-042424	AC15369-04	L14385.D	21:50
A-12-228-042424	AC15369-05	L14386.D	22:06
A-01-216-042424	AC15369-06	L14387.D	22:22
A-02-317F-042424	AC15369-07	L14389.D	22:55
A-09-402G-042424	AC15369-08	L14390.D	23:11
DUP-02-402G-042424	AC15369-09	L14391.D	23:27
Blank-01-117-042424	AC15369-10	L14392.D	23:43

CALIBRATION DATA

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	L	evel 01	Le	evel 02	L	evel 03	L	evel 04	Le	evel 05	Le	evel 06
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1016	5	495704.6	10	481634.3	25	452246.8	50	468625.8	100	433606.3	250	384879.6
Aroclor-1016 [2C]	5	641160.4	10	626861.8	25	599450	50	595656.4	100	562532.6	250	510296.8
Aroclor-1221												
Aroclor-1221 [2C]												
Aroclor-1232												
Aroclor-1232 [2C]												
Aroclor-1242												
Aroclor-1242 [2C]												
Aroclor-1248												
Aroclor-1248 [2C]												
Aroclor-1254												
Aroclor-1254 [2C]												
Aroclor-1260	5	781026.2	10	765537.4	25	722357.2	50	728444.8	100	684500.9	250	615981.6
Aroclor-1260 [2C]	5	968226.2	10	967714.3	25	951264.8	50	916812.4	100	883149.8	250	803608.8
Aroclor-1262												
Aroclor-1262 [2C]												
Aroclor-1268												
Aroclor-1268 [2C]												
Aroclor-1016{1}	5	254552.2	10	270321.1	25	264005.1	50	301458.6	100	274980.9	250	251097.1
Aroclor-1016{1} [2C]	5	365920.2	10	358800.2	25	363677.5	50	366185.6	100	349709.8	250	316059.6
Aroclor-1016{2}	5	608935	10	584347.7	25	534036	50	555553	100	503969.6	250	442705.2
Aroclor-1016{2} [2C]	5	844491.4	10	843667.7	25	774303.6	50	778699.8	100	743826.3	250	666996.4
Aroclor-1016{3}	5	739685.2	10	705453.6	25	640627.2	50	658738	100	627663.1	250	556929.6
Aroclor-1016{3} [2C]	5	981463	10	933319.1	25	908458	50	883062.4	100	822345.9	250	764595.6
Aroclor-1016{4}	5	513694	10	469486.3	25	462860.8	50	467019.6	100	438457	250	386406.7
Aroclor-1016{4} [2C]	5	652270.6	10	619959.2	25	591106	50	589974	100	573820.6	250	516572.8
Aroclor-1016{5}	5	361656.2	10	378562.9	25	359704.6	50	360360.2	100	322960.9	250	287259
Aroclor-1016{5} [2C]	5	512371.6	10	534671.8	25	490161.2	50	484294.4	100	459988.8	250	424870.8
Aroclor-1221{1}												
Aroclor-1221{1} [2C]												

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	1		ı		1		201 104 105 100					
	Le	evel 01	Le	evel 02	L	evel 03	L Le	evel 04	Le	evel 05	Le	evel 06
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1221{2}												
Aroclor-1221{2} [2C]												
Aroclor-1221{3}												
Aroclor-1221{3} [2C]												
Aroclor-1221{4}												
Aroclor-1221{4} [2C]												
Aroclor-1221{5}												
Aroclor-1221{5} [2C]												
Aroclor-1232{1}												
Aroclor-1232{1} [2C]												
Aroclor-1232{2}												
Aroclor-1232{2} [2C]												
Aroclor-1232{3}												
Aroclor-1232{3} [2C]												
Aroclor-1232{4}												
Aroclor-1232{4} [2C]												
Aroclor-1232{5}												
Aroclor-1232{5} [2C]												
Aroclor-1242{1}												
Aroclor-1242{1} [2C]												
Aroclor-1242{2}												
Aroclor-1242{2} [2C]												
Aroclor-1242{3}												
Aroclor-1242{3} [2C]												
Aroclor-1242{4}												
Aroclor-1242{4} [2C]												
Aroclor-1242{5}												
Aroclor-1242{5} [2C]												
Aroclor-1248{1}												
Aroclor-1248{1} [2C]												

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Le	evel 01	Le	evel 02	Le	evel 03	Le	evel 04	Le	Level 05		Level 06	
Compound		RF		RF		RF		RF		RF		RF	
Aroclor-1248{2}													
Aroclor-1248{2} [2C]													
Aroclor-1248{3}													
Aroclor-1248{3} [2C]													
Aroclor-1248{4}													
Aroclor-1248{4} [2C]													
Aroclor-1248{5}													
Aroclor-1248{5} [2C]													
Aroclor-1254{1}													
Aroclor-1254{1} [2C]													
Aroclor-1254{2}													
Aroclor-1254{2} [2C]													
Aroclor-1254{3}													
Aroclor-1254{3} [2C]													
Aroclor-1254{4}													
Aroclor-1254{4} [2C]													
Aroclor-1254{5}													
Aroclor-1254{5} [2C]													
Aroclor-1260{1}	5	597196	10	615118.8	25	571516.4	50	570791.2	100	526233.1	250	466735.2	
Aroclor-1260{1} [2C]	5	853152.4	10	861418.2	25	802550	50	796291.2	100	746297.4	250	667387.6	
Aroclor-1260{2}	5	972630.4	10	880455.3	25	846115.2	50	841838.6	100	790578.1	250	700014	
Aroclor-1260{2} [2C]	5	983957.8	10	978288.9	25	943634.8	50	924282	100	885643.1	250	797185.2	
Aroclor-1260{3}	5	736063	10	738947.7	25	706010	50	704821.4	100	644869.6	250	590668.1	
Aroclor-1260{3} [2C]	5	649772	10	707498.7	25	669852	50	672994.8	100	660185.9	250	595816	
Aroclor-1260{4}	5	503132.4	10	501666.7	25	457006	50	485673.6	100	466189.8	250	416470.4	
Aroclor-1260{4} [2C]	5	756918	10	744619.4	25	706958	50	698549.6	100	665158.2	250	599864.8	
Aroclor-1260{5}	5	1096109	10	1091498	25	1031138	50	1039100	100	994634.5	250	906019.9	
Aroclor-1260{5} [2C]	5	1597330	10	1546746	25	1633329	50	1491944	100	1458465	250	1357790	
Aroclor-1262{1}													
Aroclor-1262{1} [2C]													

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Level 01 Level 02 Level 03 Level 04		evel 04	L	evel 05	Level 06						
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1262{2}												
Aroclor-1262{2} [2C]												
Aroclor-1262{3}												
Aroclor-1262{3} [2C]												
Aroclor-1262{4}												
Aroclor-1262{4} [2C]												
Aroclor-1262{5}												
Aroclor-1262{5} [2C]												
Aroclor-1268{1}												
Aroclor-1268{1} [2C]												
Aroclor-1268{2}												
Aroclor-1268{2} [2C]												
Aroclor-1268{3}												
Aroclor-1268{3} [2C]												
Aroclor-1268{4}												
Aroclor-1268{4} [2C]												
Aroclor-1268{5}												
Aroclor-1268{5} [2C]												
Tetrachloro-m-xylene	0.5	1.373183E+07	1	1.370369E+07	2.5	1.295056E+07	5	1.270288E+07	10	1.200848E+07	25	1.1071E+07
Tetrachloro-m-xylene [2C]	0.5	1.759129E+07	1	1.734953E+07	2.5	1.642149E+07	5	1.681078E+07	10	1.606116E+07	25	1.526414E+07
Decachlorobiphenyl	0.5	8980100	1	8709110	2.5	8461256	5	8433468	10	8215975	25	7380793
Decachlorobiphenyl [2C]	0.5	1.6305E+07	1	1.638365E+07	2.5	1.532663E+07	5	1.518878E+07	10	1.453701E+07	25	1.294063E+07

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Le	evel 07	L	evel 08	L	evel 09	L	evel 10	Le	evel 11	Le	evel 12
Compound		RF		RF								
Aroclor-1016												
Aroclor-1016 [2C]												
Aroclor-1221	50	180090.8										
Aroclor-1221 [2C]	50	241326.4										
Aroclor-1232			50	229836.8								
Aroclor-1232 [2C]			50	301519.2								
Aroclor-1242					50	237983.2						
Aroclor-1242 [2C]					50	310751.4						
Aroclor-1248							50	353867.4				
Aroclor-1248 [2C]							50	471050.4				
Aroclor-1254	50	556874.6										
Aroclor-1254 [2C]	50	698202										
Aroclor-1260												
Aroclor-1260 [2C]												
Aroclor-1262									50	700699.1		
Aroclor-1262 [2C]									50	854000.4		
Aroclor-1268											50	1087378
Aroclor-1268 [2C]											50	1726582
Aroclor-1016{1}												
Aroclor-1016{1} [2C]												
Aroclor-1016{2}												
Aroclor-1016{2} [2C]												
Aroclor-1016{3}												
Aroclor-1016{3} [2C]												
Aroclor-1016{4}												
Aroclor-1016{4} [2C]												
Aroclor-1016{5}												
Aroclor-1016{5} [2C]												
Aroclor-1221{1}	50	142867.8										
Aroclor-1221{1} [2C]	50	152274.7										

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Le	evel 07	Level 08		L	evel 09	L	Level 10		Level 11		Level 12	
Compound		RF		RF		RF		RF		RF		RF	
Aroclor-1221{2}	50	168075.4											
Aroclor-1221{2} [2C]	50	226172.8											
Aroclor-1221{3}	50	96479.2											
Aroclor-1221{3} [2C]	50	156360.2											
Aroclor-1221{4}	50	433043.2											
Aroclor-1221{4} [2C]	50	545992.8											
Aroclor-1221{5}	50	59988.36											
Aroclor-1221{5} [2C]	50	125831.5											
Aroclor-1232{1}			50	316758									
Aroclor-1232{1} [2C]			50	400962.6									
Aroclor-1232{2}			50	225561									
Aroclor-1232{2} [2C]			50	335247.4									
Aroclor-1232{3}			50	285282.8									
Aroclor-1232{3} [2C]			50	351087.6									
Aroclor-1232{4}			50	192028.9									
Aroclor-1232{4} [2C]			50	240175.6									
Aroclor-1232{5}			50	129553.8									
Aroclor-1232{5} [2C]			50	180123									
Aroclor-1242{1}					50	143820							
Aroclor-1242{1} [2C]					50	186095.7							
Aroclor-1242{2}					50	286096.4							
Aroclor-1242{2} [2C]					50	394589.4							
Aroclor-1242{3}					50	342929.6							
Aroclor-1242{3} [2C]					50	438497.8							
Aroclor-1242{4}					50	234113.8							
Aroclor-1242{4} [2C]					50	295635							
Aroclor-1242{5}					50	182956.2							
Aroclor-1242{5} [2C]					50	238939.2							
Aroclor-1248{1}							50	338190.8					
Aroclor-1248{1} [2C]							50	491841.8					

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	L	evel 07	Level 08		Le	Level 09		Level 10		Level 11		Level 12	
Compound		RF		RF		RF		RF		RF		RF	
Aroclor-1248{2}							50	444846					
Aroclor-1248{2} [2C]							50	603202.8					
Aroclor-1248{3}							50	251369.2					
Aroclor-1248{3} [2C]							50	325640.4					
Aroclor-1248{4}							50	492573.2					
Aroclor-1248{4} [2C]							50	632091.6					
Aroclor-1248{5}							50	242358					
Aroclor-1248{5} [2C]							50	302475.4					
Aroclor-1254{1}	50	430212											
Aroclor-1254{1} [2C]	50	682960.2											
Aroclor-1254{2}	50	627298.2											
Aroclor-1254{2} [2C]	50	794484.6											
Aroclor-1254{3}	50	442914.2											
Aroclor-1254{3} [2C]	50	552104											
Aroclor-1254{4}	50	764233.8											
Aroclor-1254{4} [2C]	50	1009289											
Aroclor-1254{5}	50	519715											
Aroclor-1254{5} [2C]	50	452172.2											
Aroclor-1260{1}													
Aroclor-1260{1} [2C]													
Aroclor-1260{2}													
Aroclor-1260{2} [2C]													
Aroclor-1260{3}													
Aroclor-1260{3} [2C]													
Aroclor-1260{4}													
Aroclor-1260{4} [2C]													
Aroclor-1260{5}													
Aroclor-1260{5} [2C]													
Aroclor-1262{1}									50	447826			
Aroclor-1262{1} [2C]									50	630612.6			

EPA TO-10A

Client: Geosyntec Consultants of NC [GSCH75] SDG:

Project: NCSUPH

Calibration: AA40009 Instrument: GCECD-L

	Le	evel 07	Le	evel 08	Le	evel 09	Le	evel 10	Level 11		Le	evel 12
Compound		RF		RF		RF		RF		RF		RF
Aroclor-1262{2}									50	603180.6		
Aroclor-1262{2} [2C]									50	724671.1		
Aroclor-1262{3}									50	683276.9		
Aroclor-1262{3} [2C]									50	380832.6		
Aroclor-1262{4}									50	600515.6		
Aroclor-1262{4} [2C]									50	866562		
Aroclor-1262{5}									50	1168696		
Aroclor-1262{5} [2C]									50	1667324		
Aroclor-1268{1}											50	1294797
Aroclor-1268{1} [2C]											50	1943574
Aroclor-1268{2}											50	1241666
Aroclor-1268{2} [2C]											50	1885616
Aroclor-1268{3}											50	1028872
Aroclor-1268{3} [2C]											50	1581801
Aroclor-1268{4}											50	442752
Aroclor-1268{4} [2C]											50	686694.4
Aroclor-1268{5}											50	1428800
Aroclor-1268{5} [2C]											50	2535224
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01

Calibration:

01 Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75]

AA40009

Instrument: GCECD-L

Calibration Date: 1/16/2024 12:00:54AM

NCSUPH

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Aroclor-1016	452782.9	8.8			20	
Aroclor-1016 [2C]	589326.3	8.0			20	
Aroclor-1221		0.0			20	
Aroclor-1221 [2C]		0.0			20	
Aroclor-1232		0.0			20	
Aroclor-1232 [2C]		0.0			20	
Aroclor-1242		0.0			20	
Aroclor-1242 [2C]		0.0			20	
Aroclor-1248		0.0			20	
Aroclor-1248 [2C]		0.0			20	
Aroclor-1254		0.0			20	
Aroclor-1254 [2C]		0.0			20	
Aroclor-1260	716308	8.3			20	
Aroclor-1260 [2C]	915129.4	7.0			20	
Aroclor-1262		0.0			20	
Aroclor-1262 [2C]		0.0			20	
Aroclor-1268		0.0			20	
Aroclor-1268 [2C]		0.0			20	
Aroclor-1016{1}	269402.5	6.7			20	
Aroclor-1016{1} [2C]	353392.1	5.5			20	
Aroclor-1016{2}	538257.8	11.1			20	
Aroclor-1016{2} [2C]	775330.9	8.6			20	
Aroclor-1016{3}	654849.5	9.7			20	
Aroclor-1016{3} [2C]	882207.3	8.9			20	
Aroclor-1016{4}	456320.7	9.2			20	
Aroclor-1016{4} [2C]	590617.2	7.7			20	
Aroclor-1016{5}	345084	9.8			20	
Aroclor-1016{5} [2C]	484393.1	8.0			20	
Aroclor-1221{1}		0.0			20	
Aroclor-1221{1} [2C]		0.0			20	
Aroclor-1221{2}		0.0			Page 5	59 of 17

EPA TO-10A

Laboratory: EMSL-CIN-01

Geosyntec Consultants of NC [GSCH75]

Calibration: AA40009

Client:

Work Order: AC15369

Project: NCSUPH

Instrument: GCECD-L

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Aroclor-1221{2} [2C]		0.0			20	
Aroclor-1221{3}		0.0			20	
Aroclor-1221{3} [2C]		0.0			20	
Aroclor-1221{4}		0.0			20	
Aroclor-1221{4} [2C]		0.0			20	
Aroclor-1221{5}		0.0			20	
Aroclor-1221{5} [2C]		0.0			20	
Aroclor-1232{1}		0.0			20	
Aroclor-1232{1} [2C]		0.0			20	
Aroclor-1232{2}		0.0			20	
Aroclor-1232{2} [2C]		0.0			20	
Aroclor-1232{3}		0.0			20	
Aroclor-1232{3} [2C]		0.0			20	
Aroclor-1232{4}		0.0			20	
Aroclor-1232{4} [2C]		0.0			20	
Aroclor-1232{5}		0.0			20	
Aroclor-1232{5} [2C]		0.0			20	
Aroclor-1242{1}		0.0			20	
Aroclor-1242{1} [2C]		0.0			20	
Aroclor-1242{2}		0.0			20	
Aroclor-1242{2} [2C]		0.0			20	
Aroclor-1242{3}		0.0			20	
Aroclor-1242{3} [2C]		0.0			20	
Aroclor-1242{4}		0.0			20	
Aroclor-1242{4} [2C]		0.0			20	
Aroclor-1242{5}		0.0			20	
Aroclor-1242{5} [2C]		0.0			20	
Aroclor-1248{1}		0.0			20	
Aroclor-1248{1} [2C]		0.0			20	
Aroclor-1248{2}		0.0			20	
Aroclor-1248{2} [2C]		0.0			Page 6	60 of 1

EPA TO-10A

Laboratory: EMSL-CIN-01

Geosyntec Consultants of NC [GSCH75]

Calibration: AA40009

Client:

Work Order: AC15369

Project: NCSUPH

Instrument: GCECD-L

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Aroclor-1248{3}		0.0			20	
Aroclor-1248{3} [2C]		0.0			20	
Aroclor-1248{4}		0.0			20	
Aroclor-1248{4} [2C]		0.0			20	
Aroclor-1248{5}		0.0			20	
Aroclor-1248{5} [2C]		0.0			20	
Aroclor-1254{1}		0.0			20	
Aroclor-1254{1} [2C]		0.0			20	
Aroclor-1254{2}		0.0			20	
Aroclor-1254{2} [2C]		0.0			20	
Aroclor-1254{3}		0.0			20	
Aroclor-1254{3} [2C]		0.0			20	
Aroclor-1254{4}		0.0			20	
Aroclor-1254{4} [2C]		0.0			20	
Aroclor-1254{5}		0.0			20	
Aroclor-1254{5} [2C]		0.0			20	
Aroclor-1260{1}	557931.8	9.6			20	
Aroclor-1260{1} [2C]	787849.5	9.2			20	
Aroclor-1260{2}	838605.3	10.8			20	
Aroclor-1260{2} [2C]	918832	7.6			20	
Aroclor-1260{3}	686896.6	8.4			20	
Aroclor-1260{3} [2C]	659353.2	5.6			20	
Aroclor-1260{4}	471689.8	7.0			20	
Aroclor-1260{4} [2C]	695344.7	8.2			20	
Aroclor-1260{5}	1026417	6.9			20	
Aroclor-1260{5} [2C]	1514267	6.6			20	
Aroclor-1262{1}		0.0			20	
Aroclor-1262{1} [2C]		0.0			20	
Aroclor-1262{2}		0.0			20	
Aroclor-1262{2} [2C]		0.0			20	
Aroclor-1262{3}		0.0			Page 6	61 of 1

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01

Calibration:

Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75]

NCSUPH

AA40009 Instrument:

rument: GCECD-L

COMPOUND	Mean RF	RF RSD	Linear r ²	Quad COD	LIMIT	Q
Aroclor-1262{3} [2C]		0.0			20	
Aroclor-1262{4}		0.0			20	
Aroclor-1262{4} [2C]		0.0			20	
Aroclor-1262{5}		0.0			20	
Aroclor-1262{5} [2C]		0.0			20	
Aroclor-1268{1}		0.0			20	
Aroclor-1268{1} [2C]		0.0			20	
Aroclor-1268{2}		0.0			20	
Aroclor-1268{2} [2C]		0.0			20	
Aroclor-1268{3}		0.0			20	
Aroclor-1268{3} [2C]		0.0			20	
Aroclor-1268{4}		0.0			20	
Aroclor-1268{4} [2C]		0.0			20	
Aroclor-1268{5}		0.0			20	
Aroclor-1268{5} [2C]		0.0			20	
Tetrachloro-m-xylene	1.269474E+07	8.1			20	
Tetrachloro-m-xylene [2C]	1.658307E+07	5.2			20	
Decachlorobiphenyl	8363450	6.6			20	
Decachlorobiphenyl [2C]	1.511362E+07	8.4			20	

INITIAL CALIBRATION STANDARDS

EPA TO-10A

Laboratory: EMSL-CIN-01

Geosyntec Consultants of NC [GSCH75]

Sequence: SCA0465

Calibration: AA40009

Client:

Work Order: AC15369

Project: NCSUPH

Instrument: GCECD-L

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24A0635	1660 Cal Std 5ug/L	SCA0465-CAL1	L13618.D	01/16/24 20:11
24A0634	1660 Cal Std 10ug/L	SCA0465-CAL2	L13619.D	01/16/24 20:28
24A0633	1660 Cal Std 25ug/L	SCA0465-CAL3	L13620.D	01/16/24 20:44
24A0056	1660 Cal Std 50ug/L	SCA0465-CAL4	L13621.D	01/16/24 21:00
24A0055	1660 Cal Std 100ug/L	SCA0465-CAL5	L13622.D	01/16/24 21:16
24A0054	1660 Cal Std 250ug/L	SCA0465-CAL6	L13623.D	01/16/24 21:32
2310241	Aroclor 2154 50 ug/L	SCA0465-CAL7	L13626.D	01/16/24 22:21
2310242	Aroclor 1232 50 ug/L	SCA0465-CAL8	L13627.D	01/16/24 22:37
2310243	Aroclor 1242 50 ug/L	SCA0465-CAL9	L13628.D	01/16/24 22:53
2310244	Aroclor 1248 50 ug/L	SCA0465-CALA	L13629.D	01/16/24 23:09
2310245	Aroclor 1262 50 ug/L	SCA0465-CALB	L13630.D	01/16/24 23:25
2310246	Aroclor 1268 50 ug/L	SCA0465-CALC	L13631.D	01/16/24 23:41

Method Path : T:\METHODS\ECD-L\
Method File : PCB240116L.M

Title : 8082a PCB

Last Update : Tue May 14 14:39:44 2024 Response Via : Initial Calibration

Calibration Files

5 =L13618.D 10 =L13619.D = 250 =L13623.D 100 =L13622.D 50 =L14604.D

		Compound	5	10		250	100	50	Avg		%RSD
44) 45)	SA L1 L1 L1 L2 L2 L2 L3 L3 L3 L4 L4 L4 L5 L5 L5 L5 L6 L6 L6 L7 L7 L7 L7 L7 L7 L7 L7 L7 L7 L7 L7 L7	Tetrachloro-m Decachlorobip Aroclor-1016{1} Aroclor-1016{2} Aroclor-1016{3} Aroclor-1016{4} Aroclor-1016{5} Aroclor-121{1} Aroclor-1221{1} Aroclor-1221{2} Aroclor-1221{3} Aroclor-1221{3} Aroclor-1221{5} Aroclor-1232{1} Aroclor-1232{1} Aroclor-1232{3} Aroclor-1232{3} Aroclor-1232{4} Aroclor-1232{5} Aroclor-1242{1} Aroclor-1242{1} Aroclor-1242{3} Aroclor-1242{3} Aroclor-1242{3} Aroclor-1242{4} Aroclor-1242{5} Aroclor-1242{5} Aroclor-1248{1} Aroclor-1248{1} Aroclor-1248{1} Aroclor-1248{3} Aroclor-1248{3} Aroclor-1248{5} Aroclor-1248{5} Aroclor-1254{2} Aroclor-1254{2} Aroclor-1254{2} Aroclor-1254{2} Aroclor-1262{3} Aroclor-1254{3} Aroclor-1262{1} Aroclor-1262{3} Aroclor-1262{3} Aroclor-1262{3} Aroclor-1268{1} Aroclor-1268{3} Aroclor-1268{3} Aroclor-1268{3} Aroclor-1268{5} Aroclor-1260{1} Aroclor-1260{2} Aroclor-1260{2} Aroclor-1260{3} Aroclor-1260{5} Aroclor-1260{5} Aroclor-1260{5} Aroclor-1260{5} Aroclor-1260{5} Aroclor-1260{5}	8.980 2.546 6.089 7.397 5.137 3.617	8.709 2.703 5.843 7.055 4.695 3.786	7.381 2.511 4.427 5.569 3.864 2.873	8.216 2.750 5.040 6.277 4.385 3.230 5.262 7.906 6.449 4.662	8.433 3.015 6.587 4.670 4.681 9.6481 9.6488 4.3999 3.1253 1.22853 1.22	8.461 2.640 5.340 6.406 4.629 3.597	2.694 5.383 6.548 4.563 3.451 1.429 1.681 9.648 4.330 5.999 3.168 2.853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 1.920 6.2853 6.3869 6.869	65555555454545555555555555555555555555	8.08 6.55 6.73 11.07 9.73 9.21 9.76 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Sign 5 25	al # 0	2 Calibration Fig =L13618.D 10 =L13623.D 100	=]	L13619 L14014		50	= =L146	604.D			
		Compound	5	10		250	100	50 2	Avg		%RSD
2) 3) 4) 5)	L1 L1 L1 L1 L1	Tetrachloro-m Decachlorobip Aroclor-1016{1} Aroclor-1016{2} Aroclor-1016{3} Aroclor-1016{4} Aroclor-1016{5} Aroclor-1221{1}	1.630 3.659 8.445 9.815 6.523	1.638 3.588 8.437 9.333 6.200	1.294 3.161 6.670 7.646 5.166	1.454 3.497 7.438 8.223 5.738	1.519 3.662 7.787 8.831 5.900	1.533 3.637 7.743 9.085 5.911	1.511 3.534 7.753 8.822 5.906	E7 E5 E5 E5 E5	5.18 8.44 5.46 8.59 8.86 7.73 7.99 0.00

Method Path : T:\METHODS\ECD-L\
Method File : PCB240116L.M

Title : 8082a PCB

Last Update : Tue May 14 14:39:44 2024 Response Via : Initial Calibration

Calibration Files
5 = L13618.D 10 = L13619.D =
250 = L13623.D 100 = L13622.D 50 = L14604.D

		Compound	5	10		250	100	50	Avg		%RSD
9)	L2	Aroclor-1221{2}					2.262		2.262	E5	0.00
10)	L2	Aroclor-1221{3}					1.564		1.564		0.00
11)	L2	Aroclor-1221{4}					5.460		5.460		0.00
12)	L2	Aroclor-1221{5}					1.258		1.258		0.00
13)	L3	Aroclor-1232{1}					4.010		4.010		0.00
14)	L3	Aroclor-1232{2}					3.352		3.352		0.00
15)	L3	Aroclor-1232{3}					3.511		3.511		0.00
16)	L3	Aroclor-1232{4}					2.402		2.402		0.00
17)	L3	Aroclor-1232{5}					1.801		1.801		0.00
18)	L4	Aroclor-1242{1}					1.861		1.861		0.00
19)	L4	Aroclor-1242{2}					3.946		3.946		0.00
20)		Aroclor-1242{3}					4.385		4.385		0.00
21)	L4	Aroclor-1242{4}					2.956		2.956		0.00
22)	L4	Aroclor-1242{5}					2.389		2.389		0.00
23)	L5 L5	Aroclor-1248{1}					4.918		4.918		0.00
24) 25)		Aroclor-1248{2}					6.032		6.032		0.00
26)	L5 L5	Aroclor-1248{3} Aroclor-1248{4}					3.256 6.321		3.256 6.321		0.00
27)	ь5 Ь5	Aroclor-1248{5}					3.025		3.025		0.00
28)	L6	Aroclor-1254{1}					6.830		6.830		0.00
29)	L6	Aroclor-1254{2}					7.945		7.945		0.00
30)	L6	Aroclor-1254{3}					5.521		5.521		0.00
31)	L6	Aroclor-1254{4}					1.009		1.009		0.00
32)	L6	Aroclor-1254{5}					4.522		4.522		0.00
33)	L7	Aroclor-1262{1}					6.306		6.306		0.00
34)	L7	Aroclor-1262{2}					7.247		7.247		0.00
35)	L7	Aroclor-1262{3}					3.808		3.808		0.00
36)	L7	Aroclor-1262{4}					8.666		8.666		0.00
37)	L7	Aroclor-1262{5}					1.667		1.667	Ε6	0.00
38)	L8	Aroclor-1268{1}					1.944		1.944		0.00
39)	L8	Aroclor-1268{2}					1.886		1.886	E6	0.00
40)	L8	Aroclor-1268{3}					1.582		1.582	E6	0.00
41)	L8	Aroclor-1268{4}					6.867		6.867	E5	0.00
42)	L8	Aroclor-1268{5}					2.535		2.535	E6	0.00
43)	L9	Aroclor-1260{1}							7.878		9.19
44)	L9	Aroclor-1260{2}							9.188		7.59
45)	L9	Aroclor-1260{3}							6.594		5.57
46)	L9	Aroclor-1260{4}									8.23
47)	Ь9 	Aroclor-1260{5}		1.547 	1.358	1.458	1.492	1.633	1.514 	E6	6.62
(#)	= 0	out of Range ###	Numbe	r of ca	alibrat	tion le	evels (exceed	ed form	nat	###

Data File : L13618.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:11 pm

Operator : TL1

Sample : SEQ-CAL1

Misc :

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:32:03 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update : Tue Jan 02 09:10:57 2024

 ${\tt Response \ via : Initial \ Calibration}$

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	-			±	-	J.	٥.
1) SA Spiked 2) SA	em Monitoring Tetrachlo d Amount Decachlor d Amount	3.534 10.000 Range 10.908f	60 - 12 12.519f	20 Recove 4490050	ery = 8152498	6.00%# 0.602m	0.617m
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.937 4.368f 4.953f 5.123f 5.654f	5.362f 6.012f 6.197f	3044675 3698426 2568470 1808281	4222457	6.687m 6.623m 6.537m 6.068m	31.765
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.294 7.673 8.057 8.555 8.981f	8.639 8.931 9.567 9.990 10.339f	3680315 2515662 5480547	4919789 3248860 3784590	6.034m 6.417m 6.116m 6.045m 5.974m 30.586 6.117	6.548m 6.067m 5.773m 6.159m 6.185m 30.733 6.147

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13618.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 8:11 pm

Operator : TL1 Sample : SEQ-CAL1

Misc

Sample Multiplier: 1 ALS Vial : 2

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 12:32:03 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

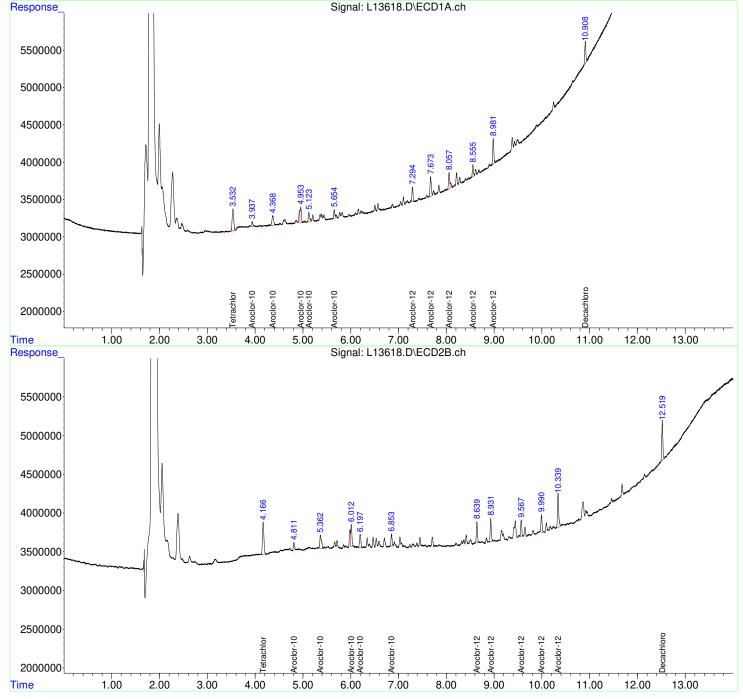
QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



Data File : L13619.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:28 pm

Operator : TL1

Sample : SEQ-CAL2

Misc

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:38:29 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

 ${\tt Response \ via : Initial \ Calibration}$

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Sum Aroclor-1242 0 0 N.D. N.D. Average Aroclor-1248 0 0 N.D. N.D. Average Aroclor-1248 0 0 N.D. N.D. Average Aroclor-1254 0 0 N.D. N.D. Average Aroclor-1254 0 0 N.D. N.D. Average Aroclor-1262 0 0 N.D. N.D. Average Aroclor-1268 0 0 N.D. N.D. Average Aroclor-1 7.671 8.928 880455		Compound	17.11.1	N1#2	ve2b#I	Kesp#2	ug/ ь	ug/ Li
3) L1 Arcclor-1 3.936f 4.811 2703211 3588002 12.243m 11.827m 4) L1 Arcclor-1 4.369 5.366 5843477 8436677 12.834m 12.852m 5) L1 Arcclor-1 4.954f 6.011f 7054536 9333191 12.633m 12.645m 6) L1 Arcclor-1 5.124f 6.198f 4694863 6199592 11.949m 12.444m 7) L1 Arcclor-1 5.654f 6.855f 3785629 5346718 12.703m 12.745m Sum Arcclor-1016 24081716 32904181 62.362 62.513 Average Arcclor-1221 0 0 N.D. N.D. Average Arcclor-1221 0 0 N.D. N.D. Average Arcclor-1232 0 0 N.D. N.D. Average Arcclor-1232 0 0 N.D. N.D. Average Arcclor-1242 0 0 N.D. N.D. Average Arcclor-1242 0 0 N.D. N.D. Average Arcclor-1248 0 0 N.D. N.D. Average Arcclor-1248 0 0 N.D. N.D. Average Arcclor-1254 0 0 N.D. N.D. Average Arcclor-1262 0 0 N.D. N.D. Average Arcclor-1262 0 0 N.D. N.D. Average Arcclor-1262 0 0 N.D. N.D. Average Arcclor-1268 0 0 N.D. N.D. Average Arcclor-1268 0 0 N.D. N.D. Average Arcclor-1268 0 0 N.D. N.D. Average Arcclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 40	1) SA Spiked 2) SA	Tetrachlo d Amount Decachlor	3.536 10.000 Range 10.908f	60 - 12 12.521f	20 Recove 8709110	ery = 16383652	11.97%# 1.167	12.18%# 1.240
Average Aroclor-1221 Sum Aroclor-1232 Average Aroclor-1232 Num Aroclor-1232 Sum Aroclor-1242 Average Aroclor-1242 Average Aroclor-1242 Average Aroclor-1248 Average Aroclor-1248 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1262 Sum Aroclor-1262 Average Aroclor-1262 Average Aroclor-1268 Average Aroclor-12	3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016	4.369 4.954f 5.124f	5.366 6.011f 6.198f	5843477 7054536 4694863 3785629	8436677 9333191 6199592 5346718	12.834m 12.633m 11.949m 12.703m 62.362	12.852m 12.645m 12.444m 12.745m 62.513
Average Aroclor-1232					0	0		
Average Aroclor-1242 0.000 0.000 0.000 Sum Aroclor-1248 0 0 N.D. N.D. Average Aroclor-1248 0 0 N.D. N.D. Sum Aroclor-1254 0 0 N.D. N.D. Average Aroclor-1262 0 0 N.D. N.D. Average Aroclor-1268 0 0 0 N.D. N.D. Average Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 44) L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.57					0	0		
Average Aroclor-1248 Sum Aroclor-1254 Average Aroclor-1254 O O N.D. N.D. O.000 Sum Aroclor-1262 Average Aroclor-1262 O O N.D. N.D. Average Aroclor-1262 O O O N.D. N.D. Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 44) L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.064m 45) L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 46) L9 Aroclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47) L9 Aroclor-1 8.983f 10.338f 10914982 15467462 11.898m 11.977m Sum Aroclor-1260					0	0		
Average Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.292 44) L9 Aroclor-1 7.671 45) L9 Aroclor-1 7.671 48.928 48.04553 48.04563 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48.04663 48					0	0		
Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 12.431m 13.224m 13.224m 13.224m 13.224m 13.224m 14. L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.064m 14. L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 14. L9 Aroclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 12.055m 12.					0	0		
Average Aroclor-1268 43) L9 Aroclor-1 7.292 8.640 6151188 8614182 12.431m 13.224m 44) L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.064m 45) L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 46) L9 Aroclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47) L9 Aroclor-1 8.983f 10.338f 10914982 15467462 11.898m 11.977m Sum Aroclor-1260 38276867 48385714 60.281 61.957					0	0		
44) L9 Aroclor-1 7.671 8.928 8804553 9782889 11.618m 12.064m 45) L9 Aroclor-1 8.057 9.568 7389477 7074987 12.279m 12.573m 46) L9 Aroclor-1 8.556 9.989 5016667 7446194 12.055m 12.119m 47) L9 Aroclor-1 8.983f 10.338f 10914982 15467462 11.898m 11.977m Sum Aroclor-1260 38276867 48385714 60.281 61.957					0	0		
	44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260	7.671 8.057 8.556	8.928 9.568 9.989	8804553 7389477 5016667 10914982	9782889 7074987 7446194 15467462	11.618m 12.279m 12.055m 11.898m 60.281	12.064m 12.573m 12.119m 11.977m 61.957

Data File : L13619.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:28 pm

Operator : TL1 Sample : SEQ-CAL2

Misc :

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 12:38:29 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

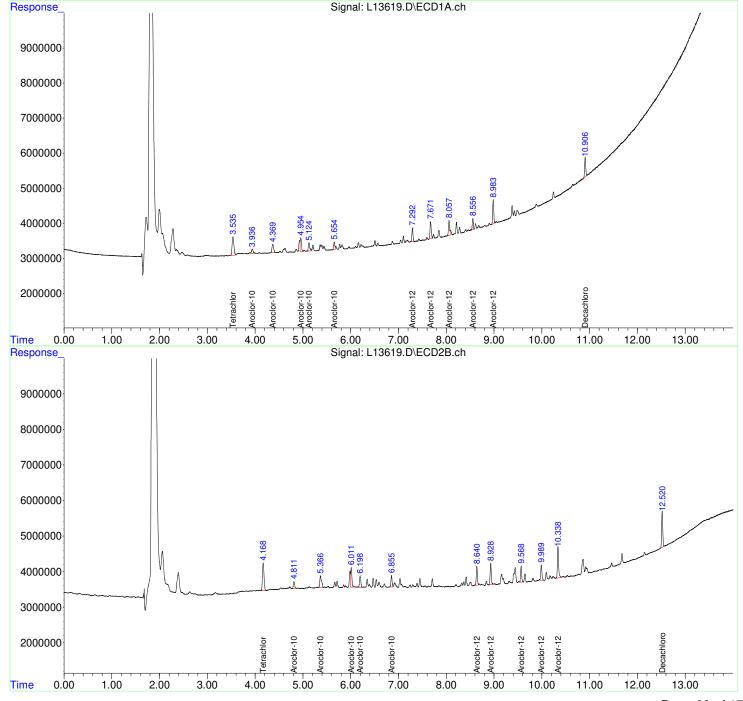
QLast Update: Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



Data File : L13620.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:44 pm

Operator : TL1

Sample : SEQ-CAL3

Misc :

ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:42:38 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update : Tue Jan 02 09:10:57 2024

 ${\tt Response \ via : Initial \ Calibration}$

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

System Monitoring Compounds 1) SA Tetrachlo 3.532f		Compound	1/1 # 1	NI#Z	resh#I	Kesp#2	ug/ L	ug/ Li
3) L1 Aroclor-1 3.936f	1) SA Spiked 2) SA	Tetrachlo d Amount Decachlor	3.532f 10.000 Range 10.910f	60 - 12 12.521f	20 Recove 21153145	ery = 38316575	28.28%# 2.835	28.81%# 2.901
Average Aroclor-1221 Sum Aroclor-1232 Average Aroclor-1232 Sum Aroclor-1242 Average Aroclor-1242 Average Aroclor-1242 Average Aroclor-1248 Average Aroclor-1248 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1262 Sum Aroclor-1262 Average Aroclor-1262 Average Aroclor-1262 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1269 Average Aroclor-1269	3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016	4.366f 4.954f 5.124f	5.365f 6.012f 6.198f	13350897 16015684 11571518 8992616	19357593 22711451 14777645 12254029	29.323 28.680 29.452 30.176m 147.522	29.489 30.770 29.663m 29.209 149.101
Average Aroclor-1232					0	0		
Average Aroclor-1242 Sum Aroclor-1248 Average Aroclor-1248 O O O N.D. N.D. O.000 Sum Aroclor-1254 Average Aroclor-1254 Average Aroclor-1262 Sum Aroclor-1262 Average Aroclor-1262 Average Aroclor-1268 Average Aroclor-1268 B Aroclor-1268 Average Aroclor-1269 Average Aroclor-1260					0	0		
Average Aroclor-1248 Sum Aroclor-1254 Average Aroclor-1254 O O N.D. N.D. O.000 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 O O N.D. N.D. Average Aroclor-1268 Average Aroclor-1268 O O O N.D. N.D. O.000 A3) L9 Aroclor-1 7.293 8.640 4287910 20063747 28.874m 30.800m 44) L9 Aroclor-1 7.672 8.930 21152882 23590870 27.912m 29.092m 45) L9 Aroclor-1 8.059 9.569 17650253 16746300 29.330m 29.759m 46) L9 Aroclor-1 8.059 9.569 17650253 16746300 29.330m 29.759m 46) L9 Aroclor-1 8.985f 10.339f 25778441 40833228 28.100m 31.619m Sum Aroclor-1260					0	0		
Average Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.293 44) L9 Aroclor-1 7.672 45) L9 Aroclor-1 7.672 45) L9 Aroclor-1 8.059 46) L9 Aroclor-1 8.059 47) L9 Aroclor-1 8.557 47) L9 Aroclor-1 8.985f 48.985f 49.395f 40.339f 40.395f 50.000 0.00					0	0		
Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.293 44) L9 Aroclor-1 7.672 45) L9 Aroclor-1 8.059 46) L9 Aroclor-1 8.059 47) L9 Aroclor-1 8.557 47) L9 Aroclor-1 8.985f 50					0	0		
Average Aroclor-1268 43) L9 Aroclor-1 7.293 8.640 14287910 20063747 28.874m 30.800m 44) L9 Aroclor-1 7.672 8.930 21152882 23590870 27.912m 29.092m 45) L9 Aroclor-1 8.059 9.569 17650253 16746300 29.330m 29.759m 46) L9 Aroclor-1 8.557 9.991 11425150 17673953 27.455m 28.765m 47) L9 Aroclor-1 8.985f 10.339f 25778441 40833228 28.100m 31.619m Sum Aroclor-1260 90294636 118.9E6 141.671 150.035					0	0		
44) L9 Aroclor-1 7.672 8.930 21152882 23590870 27.912m 29.092m 45) L9 Aroclor-1 8.059 9.569 17650253 16746300 29.330m 29.759m 46) L9 Aroclor-1 8.557 9.991 11425150 17673953 27.455m 28.765m 47) L9 Aroclor-1 8.985f 10.339f 25778441 40833228 28.100m 31.619m Sum Aroclor-1260 90294636 118.9E6 141.671 150.035					0	0		
	44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260	7.672 8.059 8.557	8.930 9.569 9.991	21152882 17650253 11425150 25778441	23590870 16746300 17673953 40833228	27.912m 29.330m 27.455m 28.100m 141.671	29.092m 29.759m 28.765m 31.619m 150.035

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13620.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 8:44 pm

Operator : TL1
Sample : SEQ-CAL3

Misc :

ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 12:42:38 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

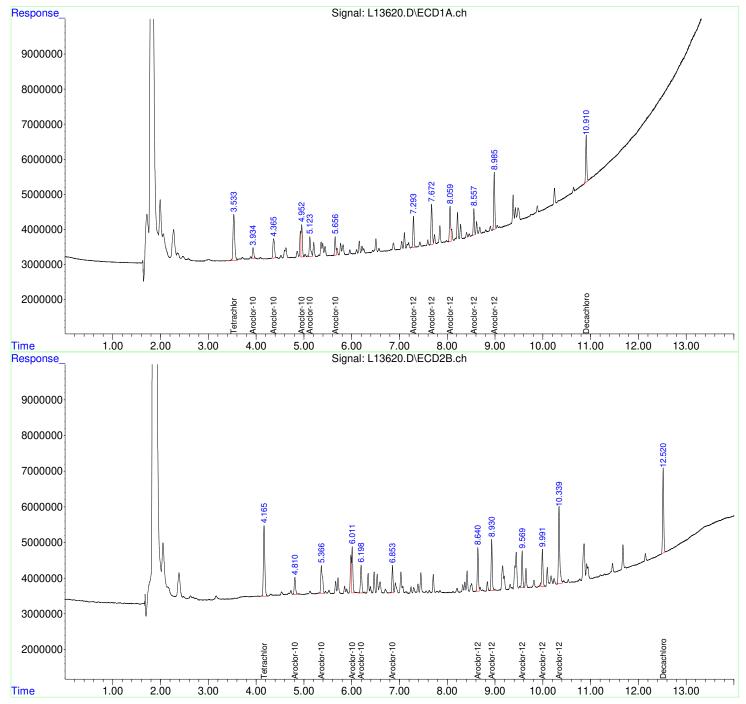
QLast Update: Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Data Path : T:\Data\ECD-L\L240116\

Data File : L13621.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 9:00 pm

Operator : TL1 Sample : SEQ-CAL4

Misc :

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:47:23 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

 ${\tt Response \ via : Initial \ Calibration}$

Integrator: ChemStation

Compound

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

	Compound	N1#1	NI#Z	ve2b#1	Kesp#2	ug/L	ug/L
1) SA Spike 2) SA	Decachlor	3.538 .0.000 Range	60 - 12 12.520f	20 Recove 42167337	75943898	55.48%# 5.651	5.899 58.99%# 5.750 57.50%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.941 4.368f 4.957f 5.126f 5.657f	4.813 5.368 6.013 6.200 6.854f	27777653 32936899 23350985 18018006	18309278 38934987 44153115 29498704 24214720 155.1E6	68.265 61.008m 58.982 59.433m 60.462 308.150 61.630	57.719m
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.294 7.673 8.059 8.556 8.984f	8.641 8.931 9.568 9.991 10.339f	42091931 35241070 24283685 51954975	39814565 46214097 33649740 34927485 74597191 229.2E6	57.674 55.542 58.562m 58.355m 56.633m 286.766 57.353	61.120m 56.991 59.798 56.845m 57.765 292.518 58.504

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13621.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 9:00 pm

Operator : TL1

Sample : SEQ-CAL4

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 12:47:23 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

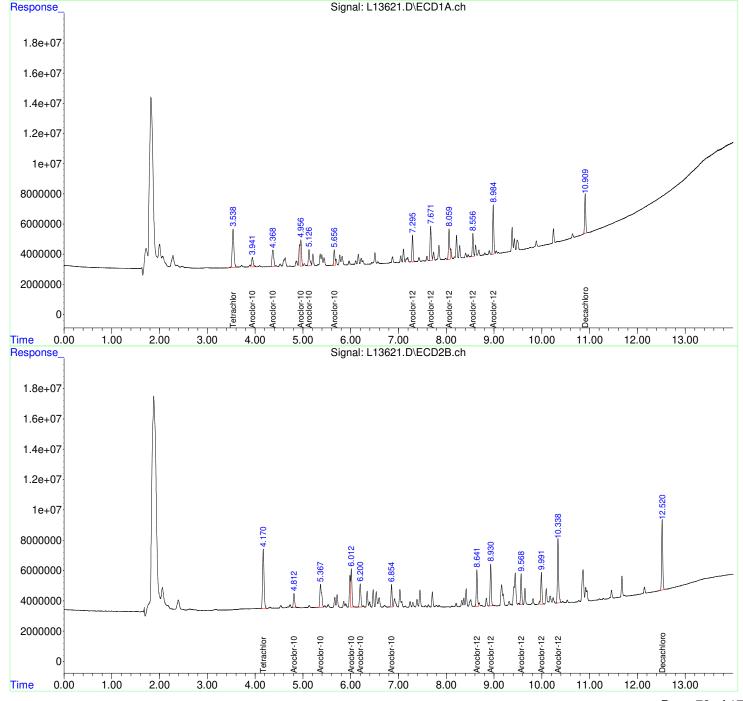
QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



Data File : L13622.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 9:16 pm

Operator : TL1

Sample : SEQ-CAL5

Misc :

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:50:12 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update: Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	d Amount 10. Decachlor	mpounds 3.531f 000 Range 10.909f 000 Range	4.166 60 - 12 12.520f 60 - 12	20 Recove 82159738	ery = 1 $145.4E6$	11.010	11.272 112.72% 11.006 110.06%
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.936f 4.367f 4.953f 5.124f 5.655f	6.012f 6.199f	27498087 50396955 62766312 43845705 32296086 216.8E6	74382623 82234589 57382054	124.538 110.688m 112.398 111.597 108.374m 567.595 113.519	111.415m 115.181m
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.293 7.672 8.057 8.555 8.984f	8.640 8.929 9.568 9.991 10.339f	52623311 79057804 64486957 46618983 99463448 342.3E6	88564304 66018591	106.344 104.320 107.161m 112.028m 108.419m 538.272 107.654	108.255m

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13622.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 9:16 pm

Operator : TL1 : SEQ-CAL5 Sample

Misc

Sample Multiplier: 1 ALS Vial : 6

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 12:50:12 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

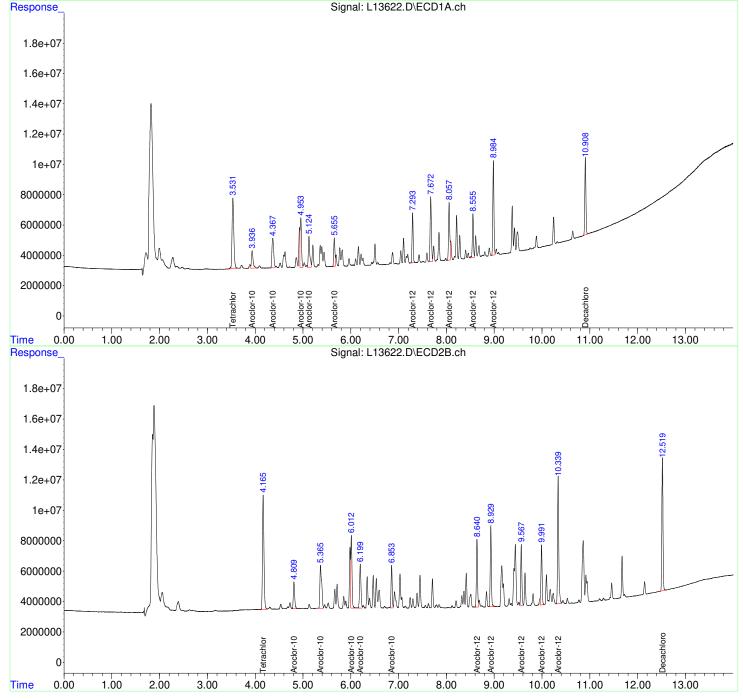
QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II



Data File : L13623.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 9:32 pm

Operator : TL1

Sample : SEQ-CAL6

Misc

ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:54:02 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0 Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	d Amount 10 Decachlor	Compounds 3.534 0.000 Range 10.908f 0.000 Range	60 - 12 12.520f	20 Recove 184.5E6	ery = 323.5E6	24.727	26.782 267.82%# 24.494 244.94%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.938 4.367f 4.954f 5.124f 5.654f		62774280 110.7E6 139.2E6 96601684 71814751 481.1E6	166.7E6 191.1E6 129.1E6 106.2E6	249.330 245.873	260.456m 254.024 258.976 259.224 253.186 1285.866 257.173
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.293 7.672 8.058 8.555 8.984f	8.640 8.928 9.568 9.991 10.338f	116.7E6 175.0E6 147.7E6 104.1E6 226.5E6 770.0E6	166.8E6 199.3E6 149.0E6 150.0E6 339.4E6 1004.5E6	230.924 245.385m	244.072m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13623.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 9:32 pm

Operator : TL1 Sample : SEQ-CAL6

Misc

: 7 ALS Vial Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 12:54:02 2024

Quant Method: T:\METHODS\ECD-L\PCB230926L.M

Quant Title : 8082a PCB

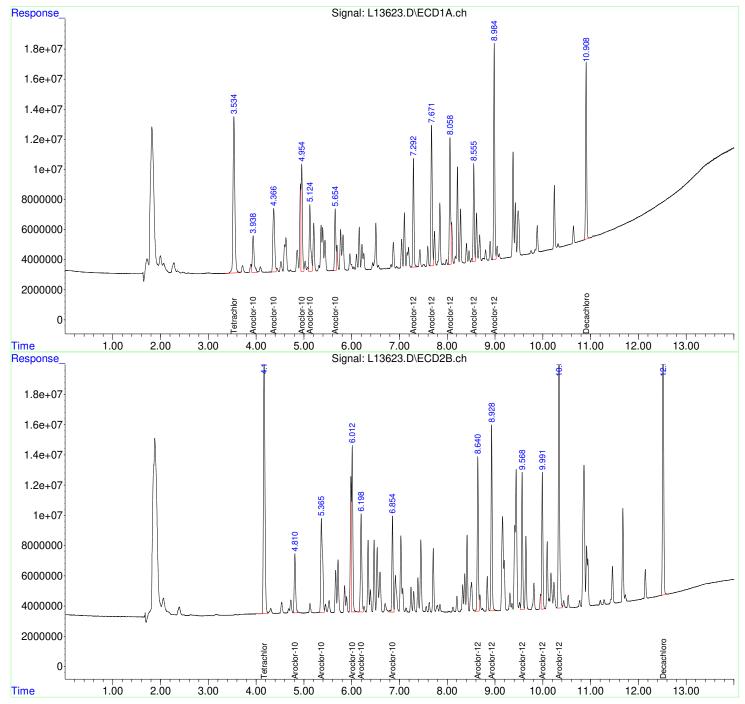
QLast Update : Tue Jan 02 09:10:57 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info: 0.25



Data File : L13626.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:21 pm

Operator : TL1

Sample : SEQ-CAL7

Misc

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:05:21 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
							_

System Monitoring Compounds

Tara	et Compounds						
Sum	Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
12) L2 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1221 Aroclor-1221	2.963f 3.716f 3.887f 3.937f 4.368f	3.556f 4.533f 4.723f 4.810f 5.358f	8403769 4823960 21652161 2999418	7613736 11308644 7818012 27299642 6291573 60331607	68.179m 59.186m 60.594m 59.517m 61.879m 309.354 61.871	56.085m 56.477m 56.063m 57.716m 62.033m 288.374 57.675
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1254 Aroclor-1254	6.158f 6.505f 6.879f 7.045f 7.674f	7.707f 8.201f 8.366f	21510599 31364914 22145710 38211692 25985753 139.2E6	39724229 27605200 50464460	55.339m 56.846m 56.276m 57.508m 55.931m 281.900 56.380	55.482m 57.980m 55.518m 56.927m 55.504m 281.411 56.282
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13626.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:21 pm

Operator : TL1

Sample : SEQ-CAL7

Misc :

ALS Vial: 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:05:21 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

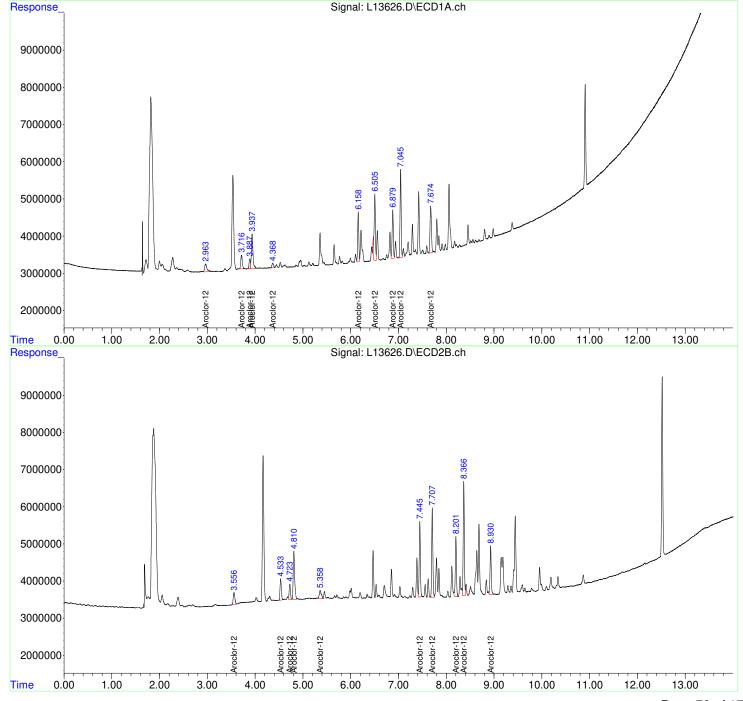
QLast Update: Wed Jan 17 13:00:01 2024

Response via : Initial Calibration Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13627.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:37 pm

Operator : TL1

Sample : SEQ-CAL8

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:11:26 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Signal #1 Info : 0.25

Syste	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
14) L3 15) L3 16) L3 17) L3 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1232 Aroclor-1232	3.934f 4.364f 4.953f 5.121f 5.654f	5.363f 6.010f 6.197f	11278052 14264139 9601446 6477690	17554380 12008780	57.449m 58.174m	55.275m
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13627.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 10:37 pm

Operator : TL1

Sample : SEQ-CAL8

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:11:26 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

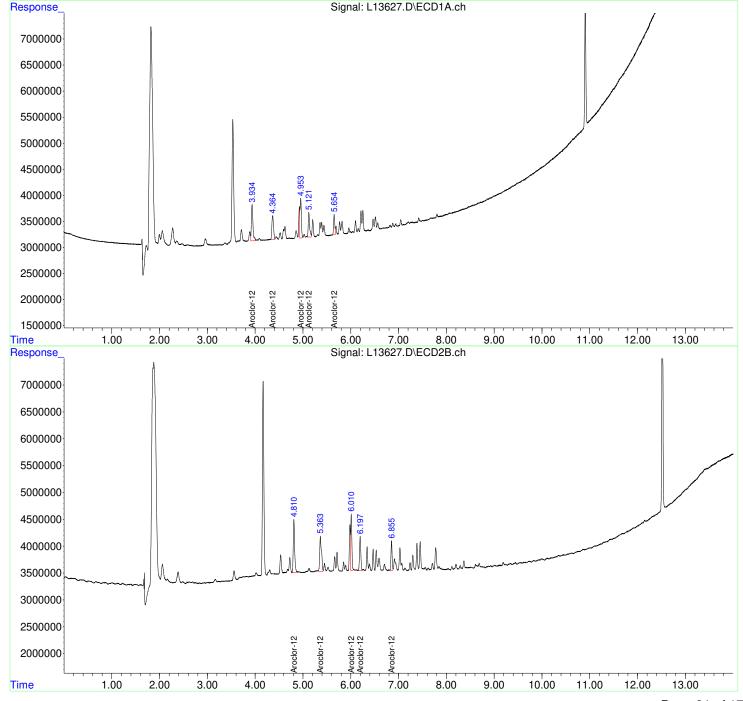
QLast Update: Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13628.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:53 pm Operator : TL1

Sample : SEQ-CAL9

Misc

ALS Vial: 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:14:30 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Signal #1 Info : 0.25

Syste	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
19) L4 20) L4 21) L4 22) L4 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1242 Aroclor-1242	3.936f 4.367f 4.952f 5.123f 5.653f	6.011f 6.198f	14304819 17146482 11705688 9147812	19729467 21924886 14781752	60.187m 60.434m 59.232m 99.800m 60.298m 339.950 67.990	
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13628.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 10:53 pm

Operator : TL1

Sample : SEQ-CAL9

Misc

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 13:14:30 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

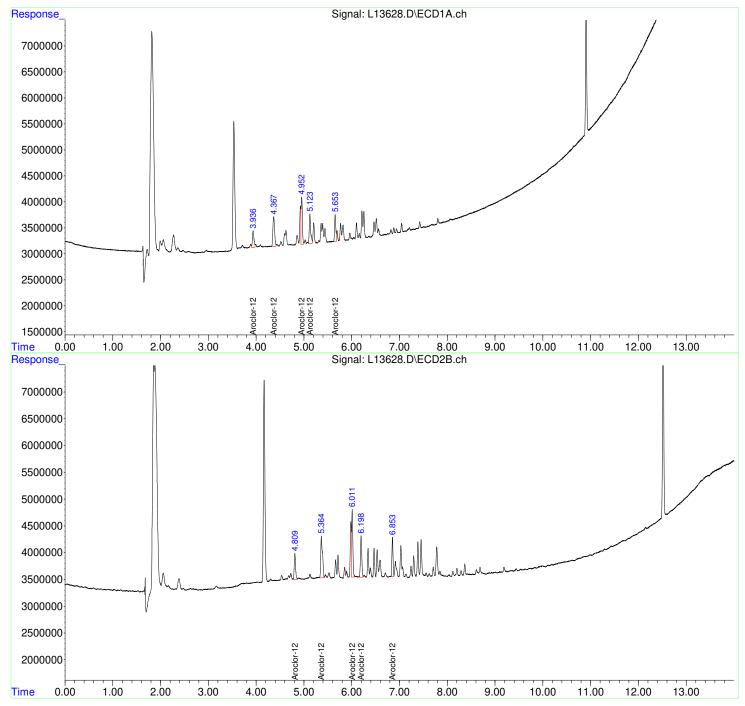
QLast Update: Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



Data File : L13629.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:09 pm

Operator : TL1

Sample : SEQ-CALA

Misc

ALS Vial: 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:17:58 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Syst	tem Monitoring	Compounds					
Sur	get Compounds n Aroclor-1016 e Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	n Aroclor-1221 e Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	n Aroclor-1232 e Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	n Aroclor-1242 e Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
24) L5 25) L5 26) L5 27) L5 Sur	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1248 Aroclor-1248	5.359f 5.653f 6.099f 6.213f 7.045f	6.853f 7.297f 7.384f	16909541 22242298 12568464 24628661 12117904 88466868	30160137 16282017 31604575 15123769	55.084m 56.577m 54.119m 62.356m 52.772m 280.909 56.182	54.726m 54.070m 50.824m 52.978m 52.007m 264.604 52.921
	n Aroclor-1254 e Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	n Aroclor-1262 e Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	n Aroclor-1268 e Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	n Aroclor-1260 e Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13629.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:09 pm

Operator : TL1

Sample : SEQ-CALA

Misc :

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:17:58 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024

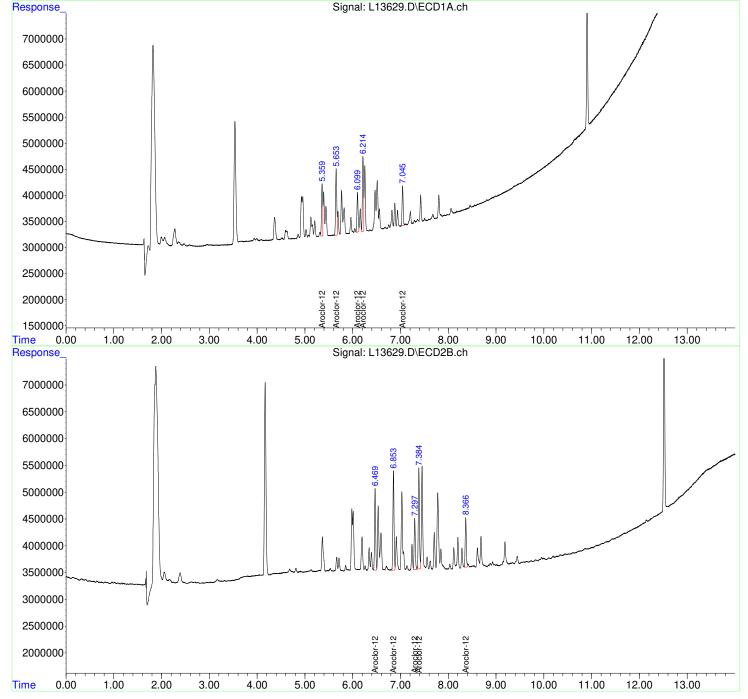
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13630.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:25 pm

Operator : TL1

Sample : SEQ-CALB

Misc

ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:22:14 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Signal #1 Info : 0.25

l							
Syst	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
34) L7 35) L7 36) L7 37) L7 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1262 Aroclor-1262	7.292f 7.670f 8.214f 8.555f 8.984f	8.929f 9.646 9.991f	30159030 34163847 30025785	833661/2	57.713m 56.848m 56.025m 57.417m	5/./6Um
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13630.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:25 pm

Operator : TL1 Sample : SEQ-CALB

Misc :

ALS Vial: 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:22:14 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

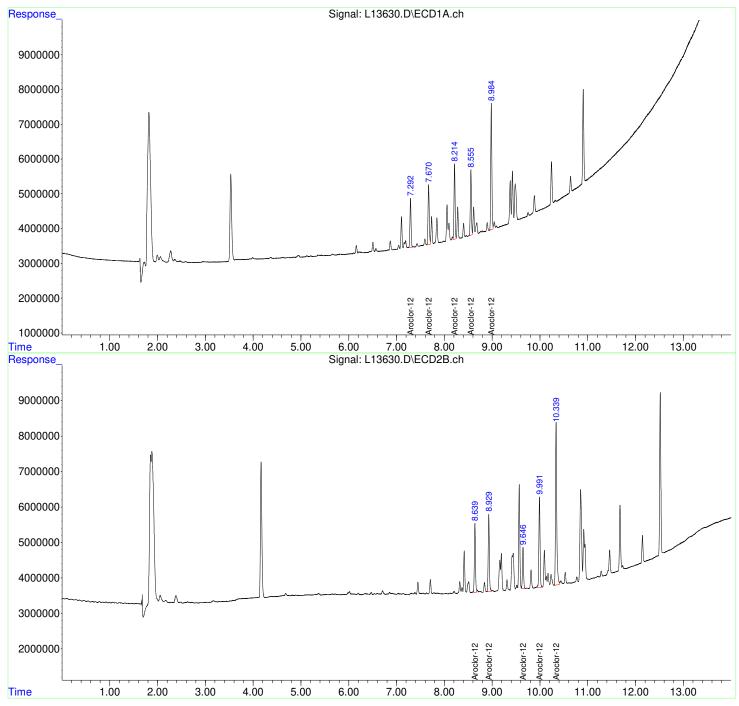
Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13631.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:41 pm Operator : TL1

Sample : SEQ-CALC

Misc

ALS Vial: 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:25:11 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Signal #1 Info : 0.25

Syste	em Monitoring	Compounds					
Sum	et Compounds Aroclor-1016 Aroclor-1016			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
39) L8 40) L8 41) L8 42) L8 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1268 Aroclor-1268	9.424f 9.480f 9.750f 10.240f 10.906f	10.917f 11.283f 11.676f	64739853 62083282 51443610 22137604 71440019 271.8E6	94280774 79090046 34334721 126.8E6		55.565m 56.271m 55.995m 55.809m 55.103m 278.743 55.749
	Aroclor-1260 Aroclor-1260			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13631.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 11:41 pm

Operator : TL1

Sample : SEQ-CALC

Misc

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:25:11 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024

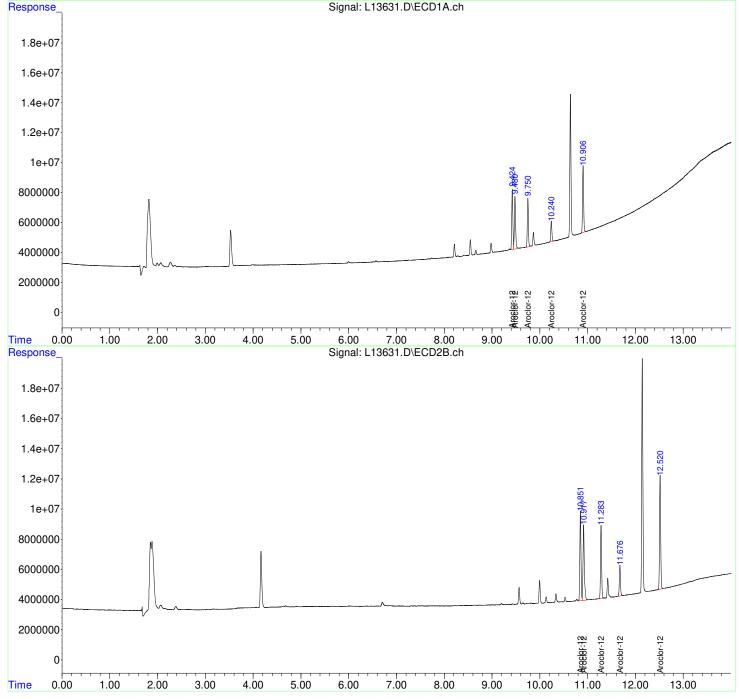
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



7 - FORM VII

INITIAL CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L Calibration: AA40009

Lab File ID: L13625.D Calibration Date: 01/16/24 00:00

Sequence: SCA0465

01/16/24 Injection Date:

Injection Time: 22:04

Lab Sample ID: SCA0465-ICV1

	RESP	ONSE FACTO	% DIFF / DRIFT			
/	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
6	452782.9	437674.2		-2.8	20	

COMPOUND TYPE STD ICV ICAL ICV MIN	· /	LIMIT (#)
Aroclor-1016 A 50.00 48.6 452782.9 437674.2	-2.8	20
Aroclor-1260 A 50.00 46.6 716308 667207.2	-6.8	20
Tetrachloro-m-xylene A 5.000 4.67 1.269474E+07 1.186843E+07	-6.6	20
Decachlorobiphenyl A 5.000 4.64 8363450 7759872	-7.2	20

CONC. (µg/L)

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm Operator : TL1

Sample : SEQ-ICV

Misc

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: Jan 17 13:02:57 2024

Quant Method : T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

		m Monitoring Tetrachlo		1 160	59342150	70201000	4.675	4.727
			10.000 Range				46.75%#	47.27
		Decachlor		12.520		70512983		4,666
			10.000 Range				46.39%#	46.66%#
JP-		7 6 6		-		,		
Tai	rge	t Compounds						
3) L:	1	Aroclor-1	3.939	4.811	13859686	17491536	51.446	49.496
4) L:	1	Aroclor-1	4.367	5.366	25883501	36139906	48.088m	46.612
5) L:	1	Aroclor-1	4.954	6.012		41331826	48.198	46.850
6) L:	1	Aroclor-1	5.123	6.199	21647523	27477708	47.439m	46.524m
7) L:	1	Aroclor-1	5.655	6.854		22375890	47.713	46.194
Si	um	Aroclor-1016			109.4E6	144.8E6	242.885	235.676
Avera	ge	Aroclor-1016					48.577	47.135
Ç.	ıım	Aroclor-1221			0	0	N.D.	N.D.
		Aroclor-1221			0	0	0.000	0.000
AVCIU	δc	A 0010 1221					0.000	0.000
Si	um	Aroclor-1232			0	0	N.D.	N.D.
Avera	ge	Aroclor-1232					0.000	0.000
Ç.	ıım	Aroclor-1242			0	0	N.D.	N.D.
		Aroclor-1242			0	0	0.000	0.000
AVCIU	δc	A 0010 1242					0.000	0.000
Si	um	Aroclor-1248			0	0	N.D.	N.D.
Avera	ge	Aroclor-1248					0.000	0.000
_		A 1					N 5	
		Aroclor-1254			0	0	N.D.	N.D.
avera	ge	Aroclor-1254					0.000	0.000
Si	um	Aroclor-1262			0	0	N.D.	N.D.
Avera	ge	Aroclor-1262					0.000	0.000
	0							
Si	um	Aroclor-1268			0	0	N.D.	N.D.
Avera	ge	Aroclor-1268					0.000	0.000
42) I	۵	Aroclor-1	7.293	8.639	26080050	38343729	48.357	48.669m
43) L:		Aroclor-1	7.671	8.929		43264591	46.615	47.087
45) L		Aroclor-1	8.058	9.568		31481769	44.365m	47.746
46) L		Aroclor-1	8.556	9.991		33959169		48.838
47) L		Aroclor-1	8.982	10.338		69178793	47.039m	45.685
,		Aroclor-1260	0.302	_3.330	166.8E6		232.963	238.024
l.							46.500	47 605

Average Aroclor-1260

46.593

47.605

Quantitation Report (QT Reviewed)

Data Path : Z:\Data\ECD-L\L240116\

Data File : L13625.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method : T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:00:01 2024 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\Data\ECD-L\L240116\

Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

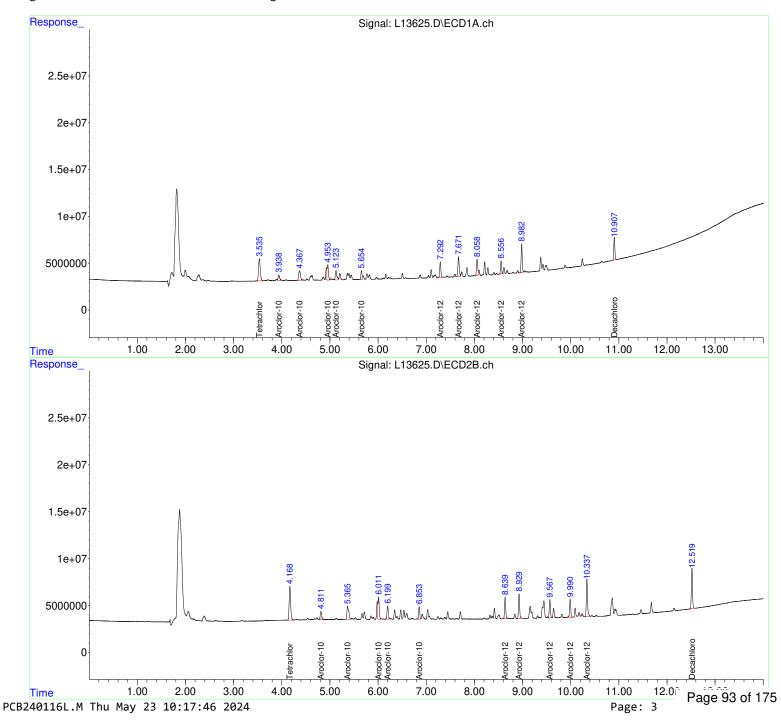
Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

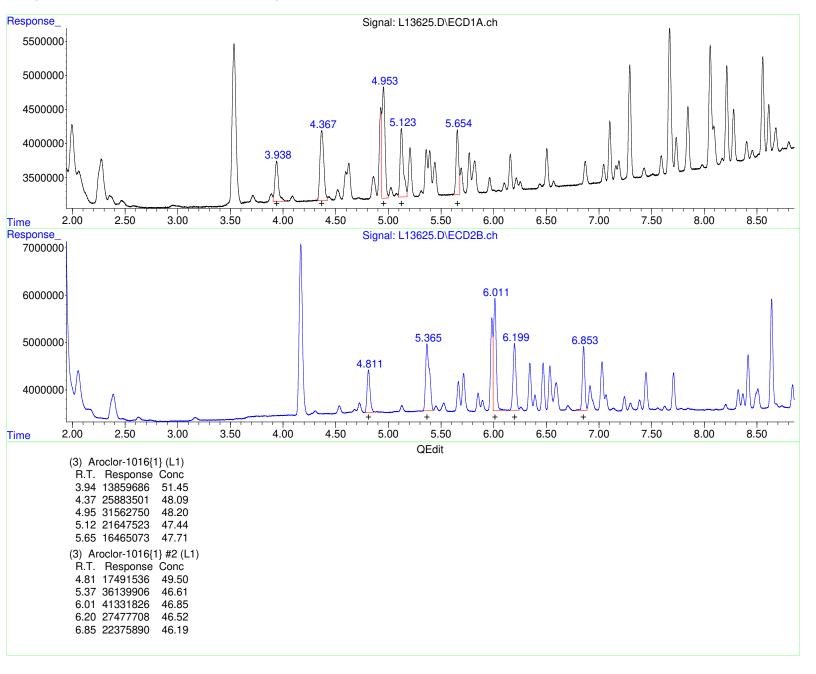
Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L13625.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 10:04 pm

Operator : TL1 Sample : SEQ-ICV

Misc :

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 17 13:02:57 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

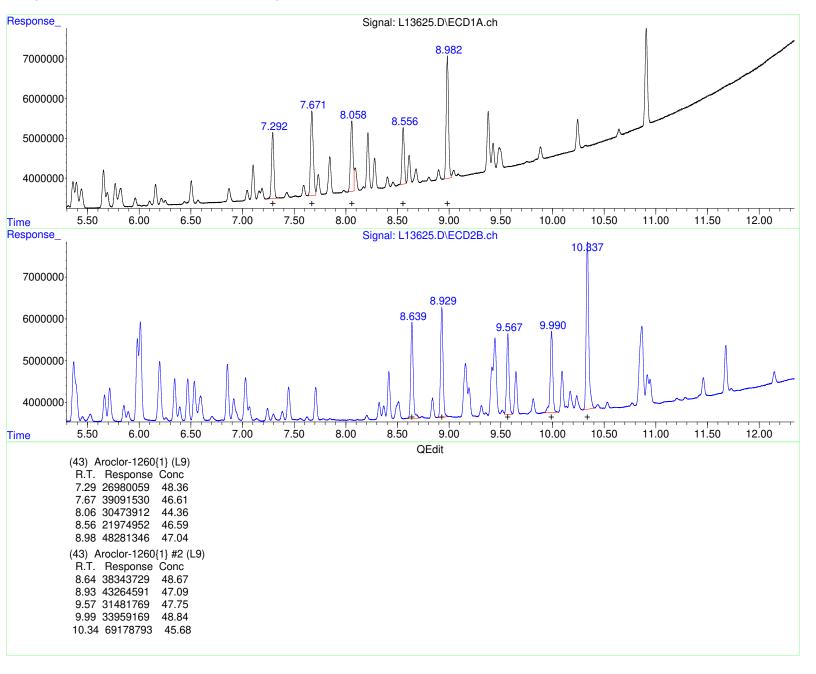
Quant Title : 8082a PCB

QLast Update : Wed Jan 17 13:00:01 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II Signal #1 Info : 0.25 Signal #2 Info : 0.25



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L Calibration: AA40009

Lab File ID: L13632.D Calibration Date: 01/16/24 00:00

Sequence: SCA0465 Injection Date:

01/16/24

Lab Sample ID:

SCA0465-CCV1

Injection Time: 23:57

		CONC. (µg/L)		RESF	RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016	Α	50.00	48.7	452782.9			-2.6	20	
Aroclor-1260	Α	50.00	47.1	716308			-5.8	20	
Tetrachloro-m-xylene	Α	5.000	4.58	1.269474E+07	1.163827E+07		-8.3	20	
Decachlorobiphenyl	Α	5.000	4.70	8363450	7862736		-6.0	20	

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Resp#1 Resp#2 ug/L

ug/L

Data Path : T:\Data\ECD-L\L240116\

Data File : L13632.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 16 Jan 2024 11:57 pm

Operator : TL1
Sample : SEQ-CCV

Misc

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:32:38 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Jan 17 13:30:51 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Compound

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

RT#2

Signal #1 Info : 0.25 Signal #2 Info : 0.25

RT#1

	compound	1(1 1	111112	T(COP # I	T(COP Z	49/1	ug/ <u>n</u>
Syst	em Monitoring						
	Tetrachlo						4.675
	ed Amount	10.000 Range	60 - 1	20 Recove	ery =	45.84%#	46.75%#
2) SA	Decachlor	10.908	12.518	39313685	70549863	4./UI 47.019#	4.668 46.68%#
SPIKE	ed Amount	10.000 Kange	00 - 1	ZU RECOVE	ery –	47.01%#	40.00%
	get Compounds						
3) L1			4.810		17077786	51.123	48.325
	Aroclor-1		5.366	31568117	35973778	47.479m 48.207	46.398 45.999
	Aroclor-1			22084461		48.397m	
	Aroclor-1			16655911		48.266	
	n Aroclor-1016		0.000	109.6E6		243.472	
	Aroclor-1016					48.694	46.876
Q	. 7 1001			0	0	31 D	N. D
	Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
Average	e Aroclor-1221					0.000	0.000
Sun	n Aroclor-1232			0	0	N.D.	N.D.
Average	Aroclor-1232					0.000	0.000
C	. 7	1		0	0	M D	M D
	n Aroclor-1242 e Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
Average	ALOCIOI-1242	•				0.000	0.000
Sun	n Aroclor-1248	}		0	0	N.D.	N.D.
Average	Aroclor-1248	}				0.000	0.000
Q	. 7 1 1 1			0	0	N. D	N D
	n Aroclor-1254 e Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
Average	ALOCIOI-1254					0.000	0.000
Sun	n Aroclor-1262			0	0	N.D.	N.D.
Average	e Aroclor-1262					0.000	0.000
C	. 7	1		0	0	NI D	M D
	n Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
Average	ALOCIOI-1200)				0.000	0.000
43) L9			8.639		37127005	47.666	47.124m
44) L9			8.928		43697290	46.995	47.557m
45) L9			9.567		32314798	46.545m	
46) L9		8.555	9.990		32951533	47.019m	
47) L9	Aroclor-1 Aroclor-1260		10.337		70504027 216.6E6	47.239m 235.464	46.560m 237.640
	Aroclor-1260 Aroclor-1260			T00.0F0	Z10.0E0	47.093	47.528
iverage	, 11100101 1200	•				47.000	47.520

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L13632.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 16 Jan 2024 11:57 pm

Operator : TL1 Sample : SEQ-CCV

Misc

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Jan 17 13:32:38 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

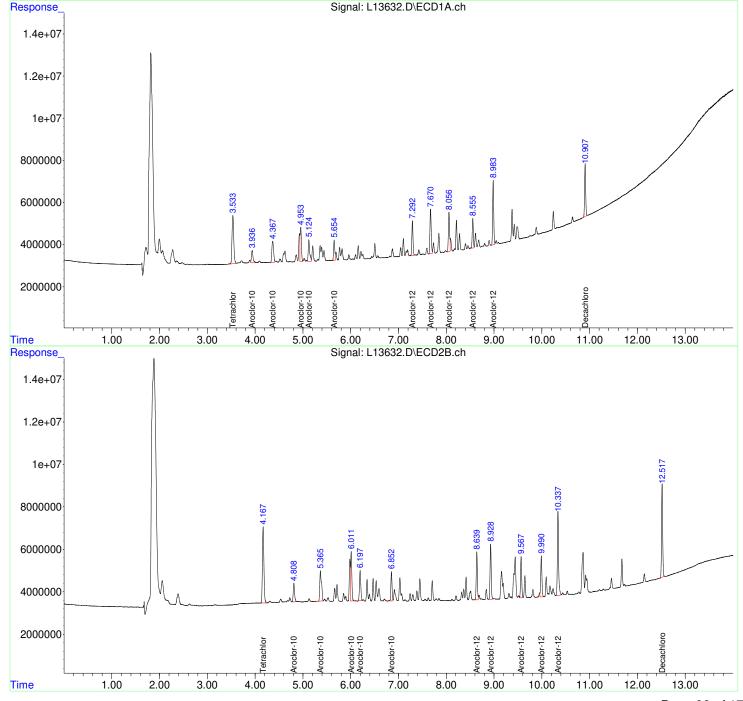
QLast Update: Wed Jan 17 13:30:51 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01

Work Order: AC15369

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L

Calibration: AA40009

Lab File ID: L14366.D

Calibration Date: 01/16/24 00:00

Sequence: SCE0475

Injection Date: 05/02/24

Lab Sample ID: SCE0475-CCV1

Injection Time: 15:20

		CONC. (μg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	Α	50.00	53.4	452782.9	479704		6.9	20
Aroclor-1260	Α	50.00	52.3	716308	747488.2		4.6	20
Tetrachloro-m-xylene	Α	5.000	5.07	1.269474E+07	1.288214E+07		1.4	20
Decachlorobiphenyl	Α	5.000	5.04	8363450	8430578		8.0	20

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14366.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 3:20 pm

Operator : AxJ Sample : SEQ-CCV

Misc :

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:13 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	N1#1	NI#Z	ve2b#I	Kesp#2	ug/ п	ug/ L
1) SA Spiked 2) SA	Decachlor	3.345f 10.000 Range	60 - 12 12.292f		82605077	5.074 50.74%# 5.040m 50.40%#	5.024 50.24%# 5.466m 54.66%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.735f 4.150f 4.722f 4.887f 5.408f	5.183f 5.820	24061332	40926399 51617755 31275190 25398881	59.007 51.569 52.871 52.729 50.967m 267.143 53.429	52.912 52.786 58.510 52.953 52.434 269.595 53.919
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.025 7.399 7.781 8.276 8.701f	8.425 8.715 9.351 9.770 10.119	43730577 35303948 25602339 53527312	41307378 50365957 36766763 37111230 80564019 246.1E6	51.454 52.147 51.396m 54.278 52.150 261.425 52.285	52.431m 54.815 55.762 53.371 53.203 269.582 53.916

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14366.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 3:20 pm

Operator : AxJ Sample : SEQ-CCV

Misc

: 2 Sample Multiplier: 1 ALS Vial

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 06 10:09:13 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

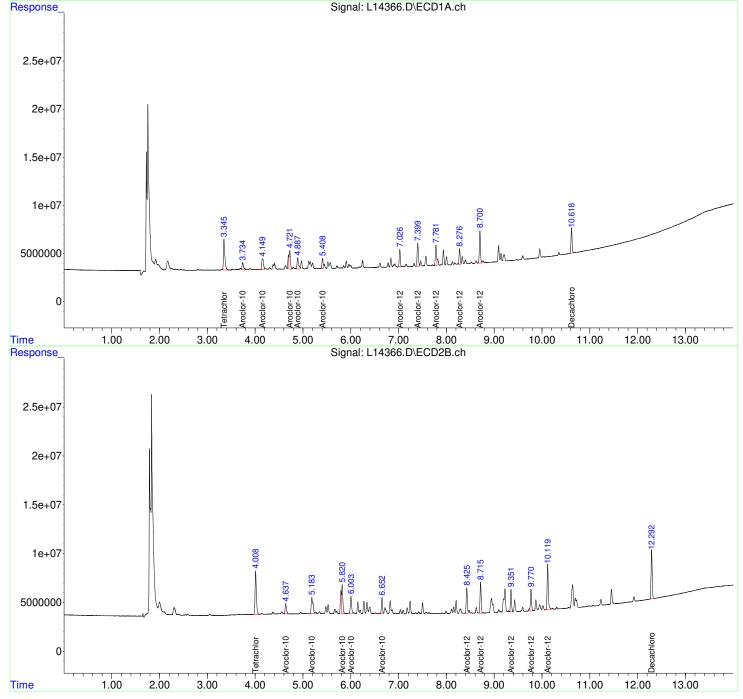
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



```
Quantitation Report (Qedit)
  Data Path: T:\Data\ECD-L\L240502\
  Data File : L14366.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
              : 2 May 2024
                                  3:20 pm
  Operator
              : AxJ
  Sample
              : SEQ-CCV
  Misc
  ALS Vial
              : 2
                      Sample Multiplier: 1
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:09:13 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                              Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                              Signal #2 Info: 0.25
Response
                                                      Signal: L14366.D\ECD1A.ch
  1.6e+07
 1.4e + 07
 1.2e + 07
   1e+07
 8000000
 6000000
                                                      4.721
                                                                 5.408
                                             4.149
                                      3.734
 4000000
                                                                   5.50
                                                                                           7.00
                                                                                                   7.50
          2.00
                  2.50
                                           4.00
                                                           5.00
                                                                                   6.50
                                                                                                           8.00
                                                                                                                    8.50
Time
                          3.00
                                   3.50
                                                   4.50
                                                                           6.00
                                                      Signal: L14366.D\ECD2B.ch
Response
 2.5e+07
   2e+07
  1.5e+07
   1e+07
                                                                        5.820
                                                              5.183
                                                                           6.003
                                                                                     6.652
                                                     4.637
 5000000
          2.00
                  2.50
Time
                          3.00
                                   3.50
                                           4.00
                                                   4.50
                                                           5.00
                                                                   5.50
                                                                           6.00
                                                                                   6.50
                                                                                           7.00
                                                                                                   7.50
                                                                                                           8.00
                                                                                                                    8.50
                                                              QEdit
        (3) Aroclor-1016{1} (L1)
         R.T. Response Conc
         3.73 15896515 59.01
         4.15 27757602
                      51.57
         4.72 34622617
                      52.87
         4.89 24061332 52.73
         5.41 17587940 50.97
        (3) Aroclor-1016{1} #2 (L1)
         R.T. Response Conc
         4.64 18698588 52.91
```

58.51

52.95

52.43

5.18 40926399 52.79 5.82 51617755

6.00 31275190

6.65 25398881

```
Quantitation Report (Qedit)
  Data Path: T:\Data\ECD-L\L240502\
  Data File : L14366.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
              : 2 May 2024
                                 3:20 pm
  Operator
              : AxJ
  Sample
              : SEQ-CCV
  Misc
  ALS Vial
              : 2
                     Sample Multiplier: 1
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:09:13 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                              Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                              Signal #2 Info: 0.25
Response
                                                     Signal: L14366.D\ECD1A.ch
                                                               8.700
 7000000
                                           7.399
                                                 7.781
 6000000
                                                        8.276
                                     7.026
 5000000
 4000000
                                            7.50
             5.50
                             6.50
                                     7.00
                                                                            9.50
                                                                                   10.00
                                                                                           10.50
                                                                                                   11.00
                                                                                                           11.50
                                                                                                                   12.00
Time
                     6.00
                                                    8.00
                                                            8.50
                                                                    9.00
                                                     Signal: L14366.D\ECD2B.ch
Response_
                                                                                     10.119
 8000000
                                                               8.715
 7000000
                                                           8.425
                                                                                9.770
                                                                          9.351
 6000000
 5000000
 4000000
Time
             5.50
                     6.00
                             6.50
                                     7.00
                                            7.50
                                                    8.00
                                                            8.50
                                                                    9.00
                                                                            9.50
                                                                                   10.00
                                                                                           10.50
                                                                                                   11.00
                                                                                                           11.50
                                                                                                                   12.00
                                                             QEdit
        (43) Aroclor-1260{1} (L9)
         R.T. Response Conc
         7.03 28707878 51.45
         7.40 43730577
                      52.15
         7.78 35303948 51.40
         8.28 25602339 54.28
         8.70 53527312 52.15
        (43) Aroclor-1260{1} #2 (L9)
```

R.T. Response Conc 8.43 41307378 52.43 8.72 50365957 54.82 9.35 36766763 55.76 9.77 37111230 53.37 10.12 80564019 53.20

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01

Work Order: AC15369

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

01/16/24 00:00

Instrument ID: GCECD-L

Calibration: AA40009

Lab File ID: L14377.D

7 (40003

Sequence: SCE0475

Injection Date: 05/02/24

Lab Sample ID: SCE0475-CCV2

Injection Time: 1

Calibration Date:

19:41

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	Α	50.00	51.8	452782.9	466667.4		3.6	20
Aroclor-1260	Α	50.00	52.0	716308	741697.6		3.9	20
Tetrachloro-m-xylene	Α	5.000	4.97	1.269474E+07	1.262479E+07		-0.6	20
Decachlorobiphenyl	Α	5.000	4.92	8363450	8235140		-1.6	20

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14377.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 7:41 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:10:35 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

 ${\tt Response \ via : Initial \ Calibration}$

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	Decachlor	3.363 .0.000 Range	60 - 12 12.293f	41175700	ery = 81513494	4.972 49.72%# 4.923m 49.23%#	4.975 49.75%# 5.393m 53.93%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.749 4.162 4.729 4.894f 5.414f	4.645 5.189 5.824 6.006 6.654	14599265 27941792 33072454 23560889 17492432 116.7E6	49401375 30329977	54.191 51.912 50.504m 51.632 50.690 258.929 51.786	52.534 50.701 55.997 51.353 48.877 259.462 51.892
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.027 7.401 7.781 8.277 8.701f	8.426 8.716 9.351 9.770 10.119	28880278 42811212 36014306 25176249 52542339 185.4E6	50586973 36628737 36514066	51.763 51.050 52.430m 53.375 51.190 259.809 51.962	51.199m 55.056 55.553 52.512 52.925 267.244 53.449

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14377.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 7:41 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:10:35 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

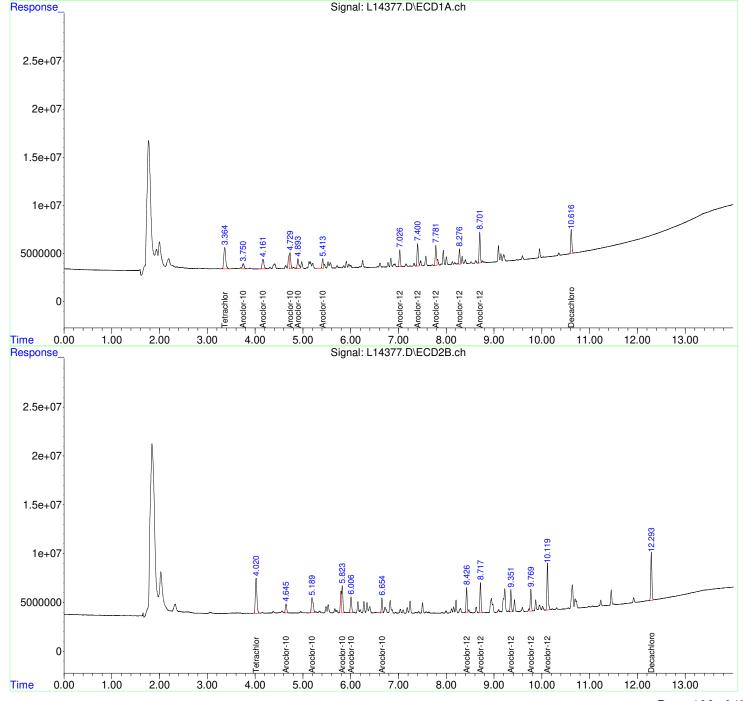
QLast Update: Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



```
Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
               : 2 May 2024
                                 7:41 pm
  Operator
              : AxJ/KC
               : SEQ-CCV
  Sample
  Misc
  ALS Vial
               : 13
                       Sample Multiplier: 1
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:10:35 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                                Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                                Signal #2 Info: 0.25
                                                       Signal: L14377.D\ECD1A.ch
Response
   1e+07
 9000000
 8000000
 7000000
 6000000
                                                  4.729
 5000000
                                                     4.893
                                       4.161
                                                                5.413
                              3.750
 4000000
       2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60 7.80 8.00 8.20
Time
                                                       Signal: L14377.D\ECD2B.ch
Response_
   1e+07
 9000000
 8000000
 7000000
                                                                        5.823
 6000000
                                                                            6.006
                                                           5.189
                                                                                         6.654
                                                4.645
 5000000
 4000000
       2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20 7.40 7.60 7.80 8.00 8.20
Time
                                                                QEdit
         (3) Aroclor-1016{1} (L1)
         R.T. Response Conc
         3.75 14599265 54.19
         4.16 27941792 51.91
         4.73 33072454
                       50.50
         4.89 23560889 51.63
         5.41 17492432 50.69
         (3) Aroclor-1016{1} #2 (L1)
         R.T. Response Conc
         4.65 18565097 52.53
         5.19 39310158 50.70
         5.82 49401375 56.00
         6.01 30329977
                       51.35
         6.65 23675623 48.88
```

Data Path: T:\Data\ECD-L\L240502\

Data File : L14377.D

```
Quantitation Report (Qedit)
  Data Path: T:\Data\ECD-L\L240502\
  Data File : L14377.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
              : 2 May 2024
                                 7:41 pm
              : AxJ/KC
  Operator
  Sample
              : SEQ-CCV
  Misc
                      Sample Multiplier: 1
  ALS Vial
              : 13
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:10:35 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                             Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                             Signal #2 Info: 0.25
Response
                                                    Signal: L14377.D\ECD1A.ch
                                                              8.701
 7000000
                                          7.400
 6000000
                                                7.781
                                                        8.276
                                     7.026
 5000000
 4000000
                                            7.50
             5.50
                            6.50
                                    7.00
                                                                           9.50
                                                                                   10.00
                                                                                          10.50
                                                                                                  11.00
                                                                                                          11.50
                                                                                                                 12.00
Time
                     6.00
                                                    8.00
                                                           8.50
                                                                   9.00
                                                    Signal: L14377.D\ECD2B.ch
Response
9000000
                                                                                    10.119
 8000000
                                                               8.717
 7000000
                                                          8.426
                                                                               9.769
                                                                         9.351
 6000000
 5000000
 4000000
             5.50
Time
                     6.00
                             6.50
                                    7.00
                                            7.50
                                                    8.00
                                                            8.50
                                                                   9.00
                                                                           9.50
                                                                                   10.00
                                                                                          10.50
                                                                                                  11.00
                                                                                                          11.50
                                                                                                                  12.00
                                                             QEdit
        (43) Aroclor-1260{1} (L9)
         R.T. Response Conc
         7.03 28880278 51.76
         7.40 42811212 51.05
```

7.03 28880278 51.76
7.40 42811212 51.05
7.78 36014306 52.43
8.28 25176249 53.37
8.70 52542339 51.19

(43) Aroclor-1260{1} #2 (L9)
R.T. Response Conc
8.43 40336838 51.20
8.72 50586973 55.06
9.35 36628737 55.55
9.77 36514066 52.51
10.12 80142071 52.92

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L AA40009

Calibration:

Lab File ID: L14388.D Calibration Date: 01/16/24 00:00

Sequence: SCE0475 Injection Date:

05/02/24

Lab Sample ID: SCE0475-CCV3 Injection Time: 22:38

		CONC. (μg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	Α	50.00	50.0	452782.9	455670.6		0.05	20
Aroclor-1260	Α	50.00	48.6	716308	692917.2		-2.9	20
Tetrachloro-m-xylene	Α	5.000	4.83	1.269474E+07	1.227057E+07		-3.4	20
Decachlorobiphenyl	Α	5.000	4.57	8363450	7646686		-8.6	20

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14388.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 10:38 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: May 06 10:11:56 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase: CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	V1#1	NI#Z	ve2b#1	Kesp#2	ug/ L	иу/ п
1) SA Spiked 2) SA	Decachlor	3.356 L0.000 Range	60 - 12 12.292f	38233427	ery = 76688476	48.33%# 4.571m	4.772 47.72%# 5.074m 50.74%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.745 4.158f 4.726f 4.892f 5.410f	4.642 5.187 5.822 6.005 6.653	25953703 34932081 22907282 16539320	17588531 38052821 49241370 28710100 22755385 156.3E6	50.427 48.218 53.344m 50.200 47.928m 250.117 50.023	49.771 49.079 55.816 48.610 46.977 250.254 50.051
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.025 7.399 7.780 8.275 8.700f	8.425 8.715 9.350 9.770 10.118f	39934559 33713798		49.210 47.620 49.081m 49.300 47.613 242.824 48.565	49.850m 51.343 52.469 49.074 49.915 252.651 50.530

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14388.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 10:38 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:11:56 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

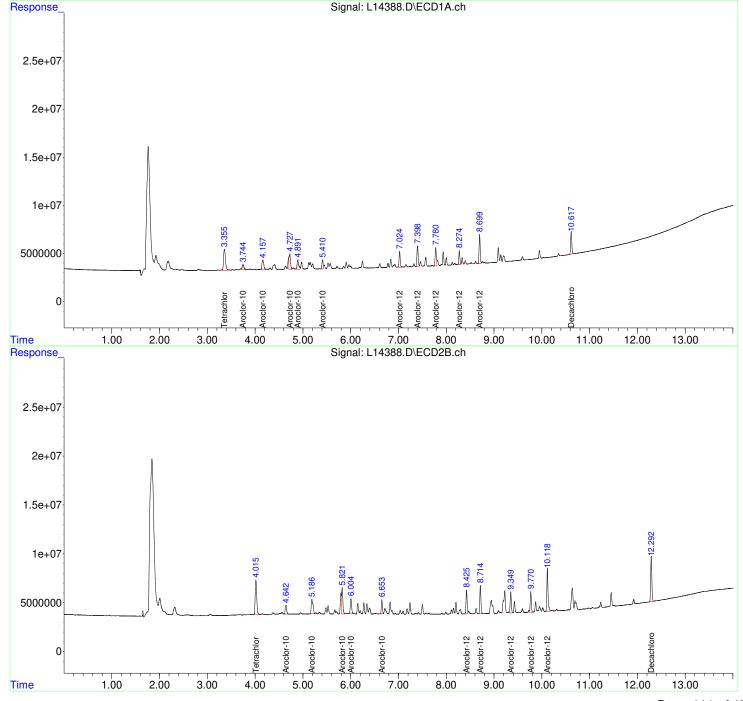
QLast Update: Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info: 0.25



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

EPA TO-10A

Project:

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client:

Lab File ID:

Geosyntec Consultants of NC [GSCH75]

NCSUPH

Instrument ID: GCECD-L Calibration: AA40009

Calibration Date: 01/16/24 00:00

23:59

Sequence: SCE0475

05/02/24 Injection Date:

Injection Time:

Lab Sample ID: SCE0475-CCV4

L14393.D

	RESP	ONSE FACTO	% DIFF	/ DRIFT		
′	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
-	450700.0	407107.4		- ·	20	

		CONC. (µg/L)		RESE	RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Aroclor-1016	А	50.00	52.5	452782.9	467197.4		5.1	20	
Aroclor-1260	Α	50.00	52.0	716308	742328.2		4.0	20	
Tetrachloro-m-xylene	Α	5.000	5.13	1.269474E+07	1.302373E+07		2.6	20	
Decachlorobiphenyl	Α	5.000	5.00	8363450	8356972		0.0	20	

[#] Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

^{*} Values outside of QC limits

Data File : L14393.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 11:59 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:12:31 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

Sum Aroclor-1221 Average Aroclor-1221 Sum Aroclor-1232 Average Aroclor-1232 Average Aroclor-1232 Sum Aroclor-1232 Average Aroclor-1232 Sum Aroclor-1242 Average Aroclor-1242 Average Aroclor-1248 Average Aroclor-1248 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1254 Average Aroclor-1262 Sum Aroclor-1262 Average Aroclor-1268 A		Compound	N1#1	N1#2	ve2b#I	resp#2	ug/ L	ug/ L
3) L1 Aroclor-1 3.747 4.644 16267292 19017760 60.383 53.815 4) L1 Aroclor-1 4.160f 5.187 28196393 40375742 52.385 52.075 5) L1 Aroclor-1 4.725f 5.823 31048519 50858697 47.413m 57.649 6) L1 Aroclor-1 4.893f 6.005 24287037 31067537 53.224 52.602 7) L1 Aroclor-1 5.411f 6.653 17000092 24618472 49.264m 50.823 Sum Aroclor-1016 16.8E6 165.9E6 262.668 266.965 Average Aroclor-1221 0 0 0 N.D. N.D. Average Aroclor-1221 0 0 0 N.D. N.D. Average Aroclor-1232 0 0 0 N.D. N.D. Average Aroclor-1232 0 0 0 N.D. N.D. Average Aroclor-1242 0 0 0 N.D. N.D. Average Aroclor-1242 0 0 0 N.D. N.D. Average Aroclor-1248 0 0 0 N.D. N.D. Average Aroclor-1248 0 0 0 N.D. N.D. Average Aroclor-1254 0 0 0 N.D. N.D. Average Aroclor-1262 0 0 0 N.D. N.D. Average Aroclor-1262 0 0 0 N.D. N.D. Average Aroclor-1268 0 0 0 N.D. N.D. Average Aroclor-1 7.025 8.424 29371168 42291446 52.643 53.680m 44) L9 Aroclor-1 7.399 8.714 43034791 51039815 51.317 55.5494 45) L9 Aroclor-1 7.780 9.350 35020751 37069474 50.984m 56.221 46) L9 Aroclor-1 7.780 9.350 35020751 37069474 50.984m 56.221 47) L9 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 47) L9 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 47) L9 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 47) L9 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 Aroclor-1	1) SA Spiked 2) SA	Tetrachlo d Amount Decachlor	3.361 10.000 Range 10.615f	60 - 12 12.293f	20 Recove 41784860	ery = 82111285	51.30%# 4.996m	50.98%# 5.433m
Average Aroclor-1221	3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016	4.160f 4.725f 4.893f	5.187 5.823 6.005	28196393 31048519 24287037 17000092	40375742 50858697 31067537 24618472	52.385 47.413m 53.224 49.264m 262.668	52.075 57.649 52.602 50.823 266.965
Average Aroclor-1232 0.000 0.000 Sum Aroclor-1242 0 N.D. N.D. Average Aroclor-1248 0 N.D. N.D. Sum Aroclor-1248 0 N.D. N.D. Average Aroclor-1254 0 N.D. N.D. Sum Aroclor-1254 0 N.D. N.D. Average Aroclor-1254 0 N.D. N.D. Sum Aroclor-1262 0 N.D. N.D. Sum Aroclor-1262 0 N.D. N.D. Sum Aroclor-1262 0 N.D. N.D. Average Aroclor-1268 0 N.D. N.D. Sum Aroclor-1268 0 N.D. N.D. Average Aroclor-1268 0 N.D. N.D. Ave					0	0		
Average Aroclor-1242 Sum Aroclor-1248 Average Aroclor-1248 O O O N.D. N.D. O.000 Sum Aroclor-1254 Average Aroclor-1254 Average Aroclor-1262 Sum Aroclor-1262 Average Aroclor-1262 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1269 Average Aroclor-					0	0		
Average Aroclor-1248 Sum Aroclor-1254 Average Aroclor-1254 O O N.D. N.D. Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1262 Average Aroclor-1268 Average Aroclor-1 7.025 8.424 29371168 42291446 52.643 53.680m 44) L9 Aroclor-1 7.399 8.714 43034791 51039813 51.317 55.549 45) L9 Aroclor-1 7.780 9.350 35020751 37069474 50.984m 56.221 46) L9 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 47) L9 Aroclor-1 8.700f 10.117f 52837175 81659194 51.477 53.927 Sum Aroclor-1260					0	0		
Average Aroclor-1254 Sum Aroclor-1262 Average Aroclor-1262 Sum Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 44) L9 Aroclor-1 7.399 45) L9 Aroclor-1 7.780 45) L9 Aroclor-1 7.780 46) L9 Aroclor-1 7.780 47) L9 Aroclor-1 8.275 48.706 49.26 40.000 0.					0	0		
Average Aroclor-1262 Sum Aroclor-1268 Average Aroclor-1268 43) L9 Aroclor-1 7.025 44) L9 Aroclor-1 7.399 45) L9 Aroclor-1 7.780 46) L9 Aroclor-1 7.780 47) L9 Aroclor-1 7.780 48.275 49.26 40) L9 Aroclor-1 8.275 41) L9 Aroclor-1 8.275 5um Aroclor-1260 0.000 N.D. N.D. 0.0000 0.0000 0.0000 0.0000 0.0000 0.00					0	0		
Average Aroclor-1268 43) L9 Aroclor-1 7.025 8.424 29371168 42291446 52.643 53.680m 44) L9 Aroclor-1 7.399 8.714 43034791 51039813 51.317 55.549 45) L9 Aroclor-1 7.780 9.350 35020751 37069474 50.984m 56.221 46) L9 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 47) L9 Aroclor-1 8.700f 10.117f 52837175 81659194 51.477 53.927 Sum Aroclor-1260 185.6E6 249.2E6 260.097 272.735					0	0		
44) L9 Aroclor-1 7.399 8.714 43034791 51039813 51.317 55.549 45) L9 Aroclor-1 7.780 9.350 35020751 37069474 50.984m 56.221 46) L9 Aroclor-1 8.275 9.769 25318157 37103085 53.675 53.359 47) L9 Aroclor-1 8.700f 10.117f 52837175 81659194 51.477 53.927 Sum Aroclor-1260 185.6E6 249.2E6 260.097 272.735					0	0		
	44) L9 45) L9 46) L9 47) L9 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260	7.399 7.780 8.275	8.714 9.350 9.769	43034791 35020751 25318157 52837175	51039813 37069474 37103085 81659194	51.317 50.984m 53.675 51.477 260.097	55.549 56.221 53.359 53.927 272.735

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14393.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 11:59 pm

Operator : AxJ/KC Sample : SEQ-CCV

Misc

Sample Multiplier: 1 ALS Vial : 29

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:12:31 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

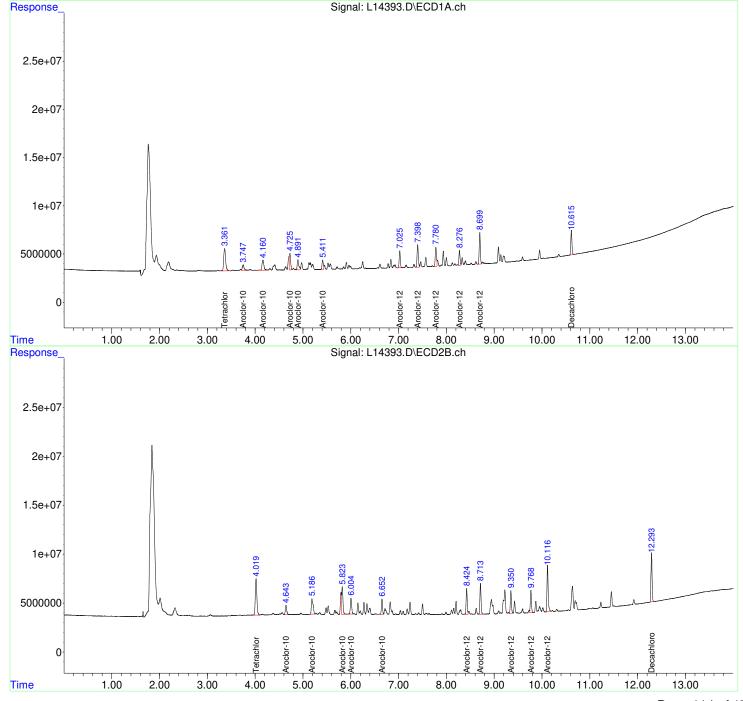
QLast Update: Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



QC DATA

A-13-106-042424

ab Sample ID:	AC1	AC15369-01 Date(s) Analyzed:		05/02/2024	05/02/2024
nstrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCEC	D-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mn

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
7.1.0.1.1.2	002		FROM	TO	OONOLIVIIVIION	, , , , ,
Aroclor-1262	1	7.025	0.000	0.000	0.0766	
	2	8.425	0.000	0.000	0.0785	1.9

ONENT ANALYTES DUP-01-106-042424

Lab Sample ID:	AC1	5369-02	Date(s) Analyzed:	05/02/2024	05/02/2024
Instrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCEC	D-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mn

ANALYTE	COL RT		RT WINDOW		CONCENTRATION	%RPD
7.1.7.2.1.2	002		FROM	TO	OONOLIVIIVIION	701 11 2
Aroclor-1262	1	7.025	0.000	0.000	0.0905	
	2	8.426	0.000	0.000	0.0942	3.5

A-15-117-042424

EPA TO-10A

 Lab Sample ID:
 AC15369-03
 Date(s) Analyzed:
 05/02/2024
 05/02/2024

 Instrument ID (1):
 GCECD-L
 Instrument ID (2):
 GCECD-L

 GC Column (1):
 RTX-CLP1
 ID: .32 mm (mm)
 GC Column (2):
 RTX-CLP 2
 ID: .32 mm (mm)

ANALYTE	COL RT		RT WINDOW		CONCENTRATION	%RPD	
7.1.7.12.1.2	002		FROM	TO	00110211111111111111	, , , , ,	
Aroclor-1262	1	7.025	0.000	0.000	0.104		
	2	8.426	0.000	0.000	0.108	7.7	

A-11-209-042424

EPA TO-10A

 Lab Sample ID:
 AC15369-04
 Date(s) Analyzed:
 05/02/2024
 05/02/2024

 Instrument ID (1):
 GCECD-L
 Instrument ID (2):
 GCECD-L

 GC Column (1):
 RTX-CLP1
 ID: .32 mm (mm)
 GC Column (2):
 RTX-CLP 2
 ID: .32 mm (mm)

ANALYTE		COL	RT	RT WINDOW		CONCENTRATION	%RPD	
7,117,12112	7117/12112			FROM	TO	001102111111111111111111111111111111111		
Aroclor-126	2	1	7.025	0.000	0.000	0.125		
		2	8.425	0.000	0.000	0.131	0.8	

A-12-228-042424

Lab Sample ID:	AC1	5369-05	Date(s) Analyzed:	05/02/2024	05/02/2024
Instrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCEC	D-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD	
7.1.0.12.1.2	002		FROM	TO	001102111111111111111111111111111111111	701.11 5	
Aroclor-1262	1	7.025	0.000	0.000	0.117		
	2	8.425	0.000	0.000	0.122	1.7	

ONENT ANALYTES A-01-216-042424

ab Sample ID:	AC1	5369-06	-06 Date(s) Analyzed:		05/02/2024
nstrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCEC	D-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mn

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7.1.0.2.1.2	""		FROM	TO	OONOLIVIIVIION		
Aroclor-1262	1	7.025	0.000	0.000	0.133		
	2	8.426	0.000	0.000	0.140	7.4	

A-02-317F-042424

Lab Sample ID:	AC15369-07		AC15369-07		Date(s) Analyzed:	05/02/2024	05/02/2024
Instrument ID (1):	GCEC	D-L	Instrument ID (2):	Instrument ID (2): GCECD-L			
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm)		

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
7.0.0.2.7.2	332		FROM	TO	00110211111111111111	7,01 (1)	
Aroclor-1262	1	7.024	0.000	0.000	0.109		
	2	8.425	0.000	0.000	0.112	1.8	

A-09-402G-042424

₋ab Sample ID:	AC1	5369-08	Date(s) Analyzed:	05/02/2024	05/02/2024
nstrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCECD)-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm)

	ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD	
l	,,		FROM TO CONCENTIVATION		701111111			
	Aroclor-1262	1	7.025	0.000	0.000 0.155			
		2	8.425	0.000	0.000	0.161	0.6	

ONENT ANALYTES DUP-02-402G-042424

EPA TO-10A

 Lab Sample ID:
 AC15369-09
 Date(s) Analyzed:
 05/02/2024
 05/02/2024

 Instrument ID (1):
 GCECD-L
 Instrument ID (2):
 GCECD-L

 GC Column (1):
 RTX-CLP1
 ID: .32 mm (mm)
 GC Column (2):
 RTX-CLP 2
 ID: .32 mm (mm)

ſ	ANALYTE	COL	RT	RT WII	NDOW	CONCENTRATION	%RPD	
	,,	002		FROM	TO	00110211111111111111	701 11 12	
	Aroclor-1262	1	7.026	0.000	0.000	0.145		
		2	8.426	0.000	0.000	0.151	0.7	

LCS

Lab Sample ID:	BCD2	253-BS1	Date(s) Analyzed:	05/02/2024	05/02/2024
Instrument ID (1):	GCEC	D-L	Instrument ID (2):	GCEC	D-L
GC Column (1):	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
7.1.0.1.1.2	002		FROM	TO	001102111111111111111111111111111111111	701 11 2
Aroclor-1016	1	3.750	0.000	0.000	941	
Aroclor-1260	1	7.027	0.000 0.000		955	

LCS Dup

₋ab Sample ID:	BCD22	253-BSD1	Date(s) Analyzed:	05/02/2024	05/02/2024	
nstrument ID (1):	GCEC	CD-L	Instrument ID (2):	GCECI	D-L	
GC Column (1)	RTX-CLP1	ID: .32 mm (mm)	GC Column (2):	RTX-CLP 2	ID: .32 mm (mm	1

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
7.1.0.1.1.2	002		FROM	TO	001102111111111111111111111111111111111	70111 2
Aroclor-1016	1	3.742	0.000	0.000	856	
Aroclor-1260	1	7.025	0.000 0.000		872	

1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BLK1 File ID: L14367.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 16:42

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (µg/m³)	MDL	RL	Q
0/10/110.		. (руш)	11106		
12674-11-2	Aroclor-1016		36.2	50.0	
11104-28-2	Aroclor-1221		36.2	50.0	
11141-16-5	Aroclor-1232		36.2	50.0	
53469-21-9	Aroclor-1242		36.2	50.0	
12672-29-6	Aroclor-1248		9.53	50.0	
11097-69-1	Aroclor-1254		9.53	50.0	
11096-82-5	Aroclor-1260		9.53	50.0	
37324-23-5	Aroclor-1262		9.53	50.0	
11100-14-4	Aroclor-1268		9.53	50.0	

Data File : L14367.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 4:42 pm

Operator : AxJ/KC

Sample : BCD2253-BLK1

Misc

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:20 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: CLPest II Signal #1 Phase : CLPest I

Signal #1 Info : 0.25 Signal #2 Info : 0.25

System Monitoring Compounds 1) SA Tetrachlo 3.373 4.020 Spiked Amount 10.000 Range 60 - 12 2) SA Decachlor 10.635 12.302 Spiked Amount 10.000 Range 60 - 12	20 Recovery 95610953 183	= 11 .0E6	9.52% 13 11.432m	35.82%# 12.109m
Target Compounds Sum Aroclor-1016 Average Aroclor-1016	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1221 Average Aroclor-1221	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1232 Average Aroclor-1232	0	0	N.D. 0.000	
Sum Aroclor-1242 Average Aroclor-1242	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1248 Average Aroclor-1248	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1254 Average Aroclor-1254	0	0	N.D. 0.000	
Sum Aroclor-1262 Average Aroclor-1262	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1268 Average Aroclor-1268	0	0	N.D. 0.000	N.D. 0.000
Sum Aroclor-1260 Average Aroclor-1260	0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14367.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 4:42 pm

: AxJ/KC Operator

: BCD2253-BLK1 Sample

Misc

Sample Multiplier: 1 ALS Vial : 3

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 06 10:09:20 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

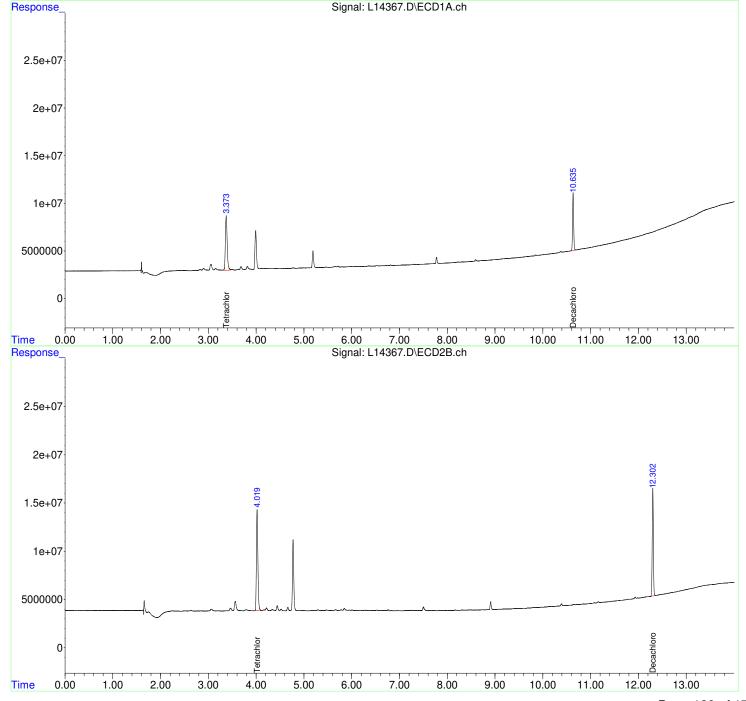
QLast Update : Wed Apr 24 13:46:39 2024 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

Blank

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BLK2 File ID: L14368.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 17:16

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016		36.2	50.0	
11104-28-2	Aroclor-1221		36.2	50.0	
11141-16-5	Aroclor-1232		36.2	50.0	
53469-21-9	Aroclor-1242		36.2	50.0	
12672-29-6	Aroclor-1248		9.53	50.0	
11097-69-1	Aroclor-1254		9.53	50.0	
11096-82-5	Aroclor-1260		9.53	50.0	
37324-23-5	Aroclor-1262		9.53	50.0	
11100-14-4	Aroclor-1268		9.53	50.0	

Data File : L14368.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:16 pm

Operator : AxJ/KC

Sample : BCD2253-BLK2

Misc

ALS Vial: 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:27 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: CLPest II Signal #1 Phase : CLPest I

Signal #1 Info : 0.25 Signal #2 Info : 0.25

1) SA Spiked 2) SA	d Amount Decachlor	g Compounds . 3.365 10.000 Range . 10.621f 10.000 Range	60 - 120 12.295 98	Recovery 963032 191	= 117 .9E6	7.55% : 11.833m	121.64%# 12.699m
Sum	et Compounds Aroclor-101 Aroclor-101	6		0	0	N.D. 0.000	
	Aroclor-122 Aroclor-122			0	0	N.D. 0.000	
	Aroclor-123 Aroclor-123			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-124 Aroclor-124			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-124 Aroclor-124			0	0	N.D. 0.000	
	Aroclor-125 Aroclor-125			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-126 Aroclor-126			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-126 Aroclor-126			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-126 Aroclor-126			0	0	N.D. 0.000	N.D. 0.000

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14368.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:16 pm

Operator : AxJ/KC

Sample : BCD2253-BLK2

Misc :

ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 10:09:27 2024

Quant Method : T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

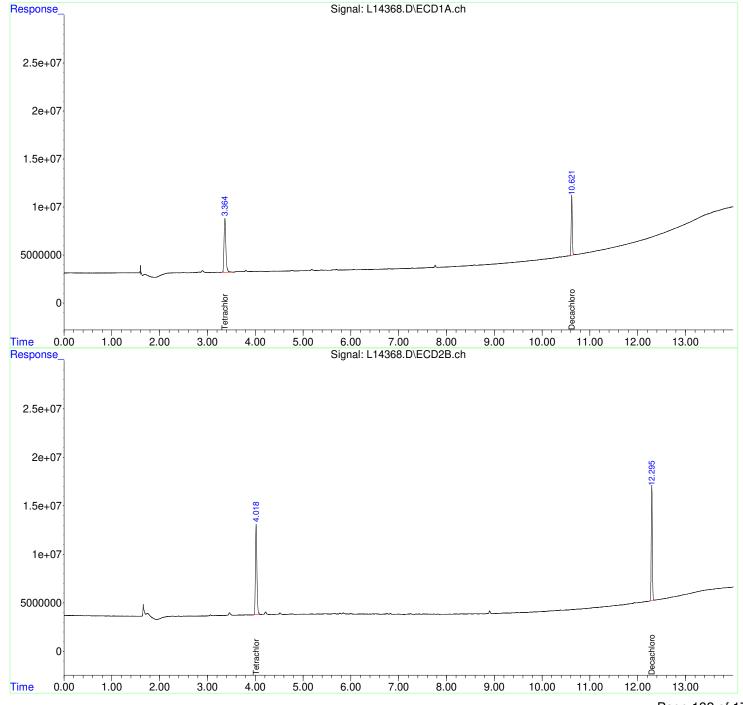
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

LCS

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BS1 File ID: L14369.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 17:32

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016	941	36.2	50.0	
11096-82-5	Aroclor-1260	955	9.53	50.0	

Data File : L14369.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:32 pm

Operator : AxJ/KC Sample : BCD2253-BS1

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:34 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: CLPest II Signal #1 Phase : CLPest I

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
1) SA Spiked 2) SA	d Amount Decachlor	3.363 10.000 Range	12.294f	20 Recove 105.4E6	ery = 1 $200.8E6$	12.195 21.95%# 12.606 26.06%#	11.923 119.23% 13.284 132.84%#
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.750 4.161 4.728f 4.894f 5.415f	4.646 5.189 5.824 6.007 6.655	46664119 62600795 40296046 30914400	35069466 69405359 82184210 53744693 44181971 284.6E6	110.342 86.695m 95.596m 88.306m 89.585 470.524 94.105	93.157
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.027 7.402 7.782 8.279 8.703f	8.428 8.718 9.353 9.772 10.119	76660054 72251941 45393871	73788988 89916992 66021324 65615320 146.7E6 442.1E6	91.156 91.414 105.186m 96.237 93.317 477.309 95.462	93.659 97.860 100.130 94.364 96.901 482.914 96.583

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14369.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 5:32 pm

: AxJ/KC Operator : BCD2253-BS1 Sample

Misc

Sample Multiplier: 1 ALS Vial : 5

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:34 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

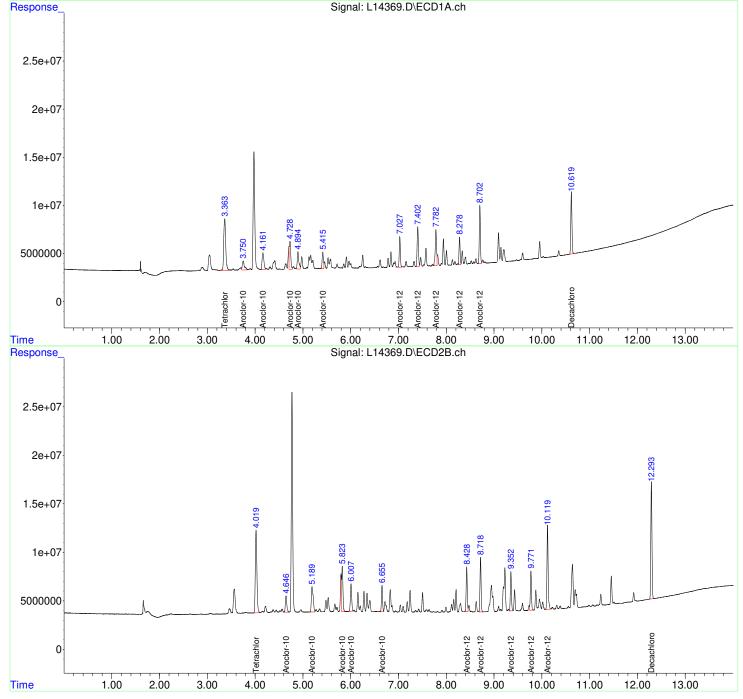
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



```
Data Path: T:\Data\ECD-L\L240502\
Data File : L14369.D
          : 2 May 2024
```

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

5:32 pm

: AxJ/KC Operator Sample : BCD2253-BS1

Misc

Sample Multiplier: 1 ALS Vial : 5

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e Quant Time: May 06 10:09:34 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

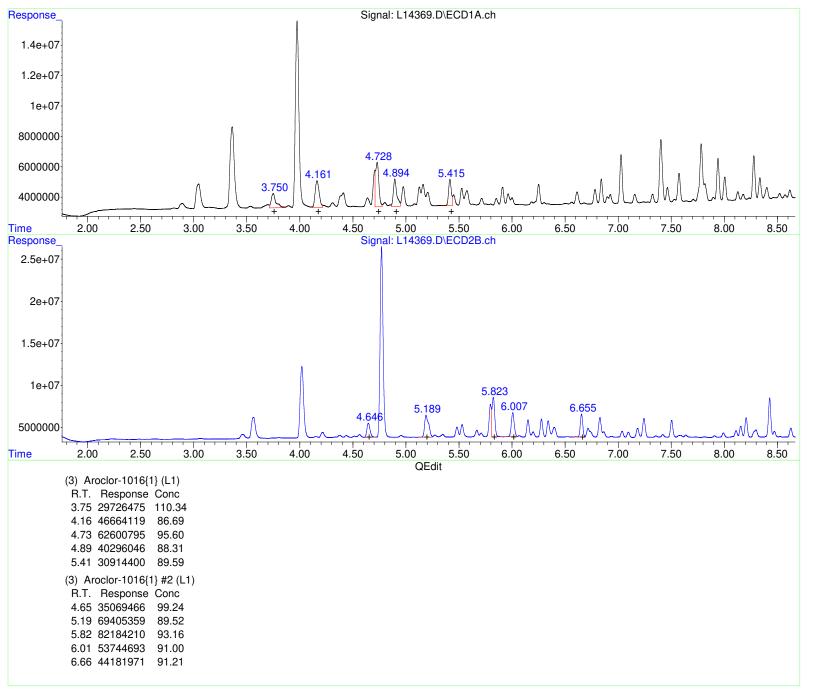
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



Data File : L14369.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:32 pm

Operator : AxJ/KC Sample : BCD2253-BS1

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 06 10:09:34 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

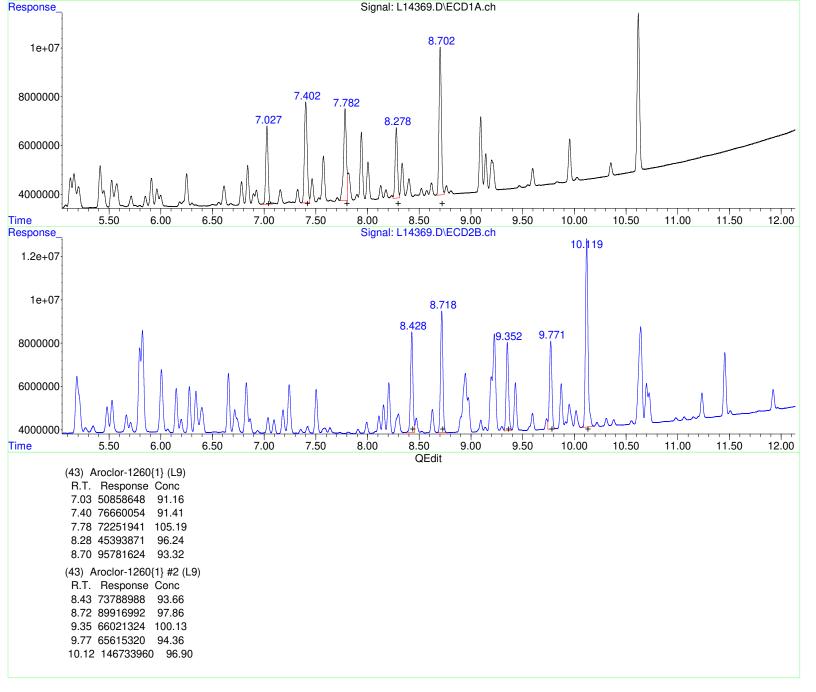
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1.0 Signal #1 Phase : CLPest I

Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



1 - FORM I ANALYSIS DATA SHEET

LCS Dup

Laboratory: EMSL-CIN-01 Work Order: AC15369

Client: Geosyntec Consultants of NC [GSCH75] Project: NCSUPH

Matrix: Tubes Laboratory ID: BCD2253-BSD1 File ID: L14370.D

Sampled: Prepared: 04/30/24 15:23 Analyzed: 05/02/24 17:48

Solids: Preparation: EPA TO-10A Dilution:

Batch: BCD2253 Sequence: SCE0475 Calibration: AA40009 Instrument: GCECD-L

Column: 1

CAS NO.	COMPOUND	CONC. (μg/m³)	MDL	RL	Q
12674-11-2	Aroclor-1016	856	36.2	50.0	
11096-82-5	Aroclor-1260	872	9.53	50.0	

Data File : L14370.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 2 May 2024 5:48 pm

Operator : AxJ/KC

Sample : BCD2253-BSD1

Misc

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:42 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update : Wed Apr 24 13:46:39 2024

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: CLPest II Signal #1 Phase : CLPest I

Compound RT#1 RT#2 Resp#1 Resp#2 ug/L ug/L

Signal #1 Info : 0.25 Signal #2 Info : 0.25

	Compound	K1#1	KI#Z	Ve2b#I	Kesp#2	ug/ Li	иу/ п
1) SA Spike 2) SA	em Monitoring Tetrachlo d Amount Decachlor d Amount	3.350f 10.000 Range 10.618f	60 - 3 12.294	f 86854723	ery = 166.1E6	95.36% 10.385m	9.046 90.46% 10.993 109.93%
3) L1 4) L1 5) L1 6) L1 7) L1 Sum	et Compounds Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1016 Aroclor-1016	3.742f 4.160f 4.725f 4.892f 5.412f	4.642 5.187 5.821 6.005 6.653	43427764 57068883 36505741 28086002	30008405 61135915 74662152 48798837 40340544 254.9E6	98.591 80.682m 87.148m 80.000m 81.389m 427.810 85.562	84.631 82.623
	Aroclor-1221 Aroclor-1221			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1232 Aroclor-1232			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1242 Aroclor-1242			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1248 Aroclor-1248			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1254 Aroclor-1254			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1262 Aroclor-1262			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1268 Aroclor-1268			0	0	N.D. 0.000	N.D. 0.000
	Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1 Aroclor-1260 Aroclor-1260	7.025 7.400 7.780 8.277 8.702f	8.426 8.716 9.351 9.771 10.119	69529362 67244147 41037952	66886699 81219754 59712319 59304372 132.3E6 399.4E6	83.668 82.911 97.896m 87.002 84.336 435.811 87.162	84.898 88.395 90.562 85.288 87.352 436.494 87.299

⁽f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : L14370.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 2 May 2024 5:48 pm

: AxJ/KC Operator

: BCD2253-BSD1 Sample

Misc

Sample Multiplier: 1 ALS Vial : 6

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: May 06 10:09:42 2024

Quant Method: T:\METHODS\ECD-L\PCB240116L.M

Quant Title : 8082a PCB

QLast Update: Wed Apr 24 13:46:39 2024

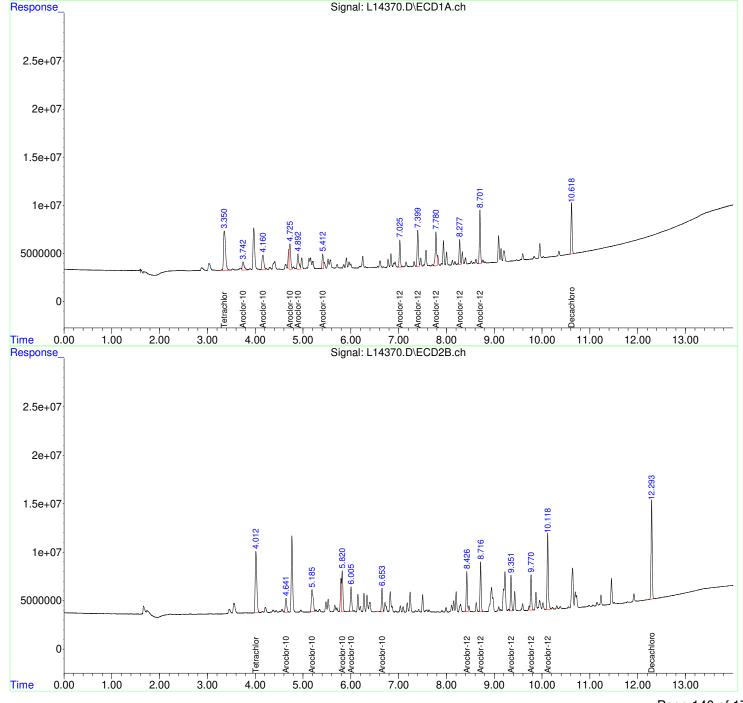
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : CLPest I Signal #2 Phase: CLPest II

Signal #1 Info : 0.25 Signal #2 Info : 0.25



```
Quantitation Report (Qedit)
  Data Path: T:\Data\ECD-L\L240502\
  Data File : L14370.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
              : 2 May 2024
                                 5:48 pm
              : AxJ/KC
  Operator
  Sample
              : BCD2253-BSD1
  Misc
                     Sample Multiplier: 1
  ALS Vial
              : 6
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:09:42 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                              Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                              Signal #2 Info : 0.25
Response
                                                     Signal: L14370.D\ECD1A.ch
 7000000
                                                     4.725
 6000000
                                                        4 892
                                                                 5.412
 5000000
                                            4.160
                                      3.742
 4000000
 3000000
                                                                                          7.00
          2.00
                  2.50
                          3.00
                                  3.50
                                          4.00
                                                  4.50
                                                          5.00
                                                                  5.50
                                                                                  6.50
                                                                                                  7.50
                                                                                                          8.00
                                                                                                                  8.50
Time
                                                                          6.00
                                                     Signal: L14370.D\ECD2B.ch
Response_
   1e+07
                                                                       5.820
 8000000
                                                                          6.005
                                                                                    6.653
                                                             5.185
 6000000
                                                    4.64
 4000000
          2.00
                                                                          6.00
                                                                                                          8.00
                                                                                                                  8.50
Time
                  2.50
                          3.00
                                  3.50
                                          4.00
                                                  4.50
                                                          5.00
                                                                  5.50
                                                                                  6.50
                                                                                          7.00
                                                                                                  7.50
                                                             QEdit
        (3) Aroclor-1016{1} (L1)
         R.T. Response Conc
         3.74 26560543 98.59
         4.16 43427764
                      80.68
         4.72 57068883 87.15
         4.89 36505741
                      80.00
         5.41 28086002 81.39
        (3) Aroclor-1016{1} #2 (L1)
```

82.62

83.28

R.T. Response Conc 4.64 30008405 84.92 5.19 61135915 78.85 5.82 74662152 84.63 6.00 48798837

6.65 40340544

```
Quantitation Report (Qedit)
  Data Path: T:\Data\ECD-L\L240502\
  Data File : L14370.D
  Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch
              : 2 May 2024
                                 5:48 pm
             : AxJ/KC
  Operator
              : BCD2253-BSD1
  Sample
  Misc
                     Sample Multiplier: 1
  ALS Vial
              : 6
  Integration File signal 1: autoint1.e
  Integration File signal 2: autoint2.e
  Quant Time: May 06 10:09:42 2024
  Quant Method: T:\METHODS\ECD-L\PCB240116L.M
  Quant Title : 8082a PCB
  QLast Update: Wed Apr 24 13:46:39 2024
  Response via : Initial Calibration
  Integrator: ChemStation
  Volume Inj.
  Signal #1 Phase : CLPest I
                                             Signal #2 Phase: CLPest II
  Signal #1 Info : 0.25
                                             Signal #2 Info : 0.25
Response
                                                     Signal: L14370.D\ECD1A.ch
   1e+07
                                                               8.701
 9000000
 8000000
                                          7.399
                                                7.780
 7000000
                                                        8.277
                                     7.025
 6000000
 5000000
 4000000
                                            7.50
                            6.50
                                    7.00
                                                                           9.50
                                                                                   10.00
                                                                                          10.50
                                                                                                  11.00
                                                                                                          11.50
                                                                                                                  12.00
Time
             5.50
                     6.00
                                                            8.50
                                                                    9.00
Response_
                                                     Signal: L14370.D\ECD2B.ch
                                                                                    10.118
   1e+07
                                                               8.716
                                                          8.426
 8000000
                                                                         9.351
                                                                               9.770
 6000000
 4000000
Time
             5.50
                     6.00
                             6.50
                                    7.00
                                            7.50
                                                    8.00
                                                            8.50
                                                                    9.00
                                                                           9.50
                                                                                   10.00
                                                                                          10.50
                                                                                                  11.00
                                                                                                          11.50
                                                                                                                  12.00
                                                             QEdit
        (43) Aroclor-1260{1} (L9)
         R.T. Response Conc
         7.03 46680777 83.67
         7.40 69529362 82.91
         7.78 67244147 97.90
         8.28 41037952 87.00
         8.70 86563524 84.34
```

8.70 86563524 84.34 (43) Aroclor-1260{1} #2 (L9) R.T. Response Conc 8.43 66886699 84.90 8.72 81219754 88.39 9.35 59712319 90.56 9.77 59304372 85.29 10.12 132273858 87.35

Print Date/Time: 05/14/2024 4:44 pm

PREPARATION BENCH SHEET

Organics

BCD2253

Matrix: Tubes

Prepared using: GC-SVOA - EPA TO-10A

Extraction Comments

PCB/ Pest Surrogate

Surrogate Solution(s) Surrogate 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 24A1129 ul Spike 1000 Final (mL) 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 7516.8 7480.8 7473.6 7502.4 7394.4 7358.4 7387.2 7567.2 7142.4 7466.4 7473.6 7588.8 7387.2 Initial 7416 7344 7488 3 4/30/2024 3:23:00PM 4/30/2024 3:23:00PM 4/30/2024 3:23:00PM 4/30/2024 3:23:00PM 3:23:00PM 4/30/2024 3:23:00PM Prepared 4/30/2024 608 Spike Spiking Solution(s) 05/02/2024 05/02/2024 05/03/2024 05/02/2024 05/02/2024 05/02/2024 05/02/2024 05/02/2024 05/02/2024 05/02/2024 05/02/2024 Extract by 05/02/2024 05/02/2024 05/02/2024 05/02/2024 05/03/2024 24A1093 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 05/14/2024 Date Due Sample and Source ID DUP-03-742-042424 A-14-ROOF-042424 A-09-402G-042424 A-04-714B-042424 A-02-317F-042424 A-07-510E-042424 A-05-608J-042424 A-11-209-042424 A-08-526-042424 A-06-635-042424 A-03-742-042424 A-13-106-042424 A-10-400-042424 A-15-117-042424 A-12-228-042424 A-01-216-042424 LCS Dup 01-PCB-TO-10A BCD2253-BSD1 Lab Number AC15354-08 AC15354-01 AC15369-03 AC15369-05 AC15369-04 AC15354-02 AC15354-03 AC15354-04 AC15354-05 AC15354-06 AC15354-07 AC15354-09 AC15369-01 AC15369-06 AC15369-07 AC15369-08 Analyses

Preparation Reviewed By

Date

Page 1 of 2

Date

Extracts Received By

srb

100 100

1000

100 100 100

10 10 10 10 10

7516.8

3:23:00PM

4/30/2024

05/03/2024

05/14/2024

DUP-02-402G-042424 Blank-01-117-042424

AC15369-09

Blank Blank

BCD2253-BLK2 BCD2253-BLK1

AC15369-10

CS

Page 143 of 175

4/30/2024 3:23:00PM 4/30/2024 3:23:00PM 4/30/2024 3:23:00PM 4/30/2024 3:23:00PM

05/02/2024

05/14/2024

Print Date/Time: 05/14/2024 4:44 pm

Prepared using: GC-SVOA - EPA TO-10A

PCB/ Pest Surrogate

24A1129

100

Surrogate Solution(s)

PREPARATION BENCH SHEET

Organics

BCD2253

Matrix: Tubes

Analyses

(Continued)

10 7358.4 4/30/2024 3:23:00PM 608 Spike Spiking Solution(s) 05/02/2024 24A1093 05/14/2024 DUP-01-106-042424 01-PCB-TO-10A AC15369-02

20230818557 LotNum 218622 224102 14223 Hexane PUF Cartridge, TO-10A Baked Sodium Sulfate Description Sulfuric Acid Standard 24B0920 24C0733 24D0523 24D0525 Reagents

Start Date/Time

StopDate/Time

Preparation Reviewed By

Date

Date

Extracts Received By

Sequence Date: 01/16/2024

Analysis Sequence

SCA0465

GC-SVOA GCECD-L AA40009 Department:

Instrument: Calibration ID:

Lab Number	Sample Name	Order	Position	STD ID	ISTD ID	Comments
SCA0465-CAL1	Cal Standard	1		24A0635		
SCA0465-CAL2	Cal Standard	2		24A0634		
SCA0465-CAL3	Cal Standard	3		24A0633		
SCA0465-CAL4	Cal Standard	4		24A0056		
SCA0465-CAL5	Cal Standard	5		24A0055		
SCA0465-CAL6	Cal Standard	9		24A0054		
SCA0465-ICV1	Initial Cal Check	7		24A0636		
SCA0465-CAL7	Cal Standard	8		2310241		
SCA0465-CAL8	Cal Standard	6		2310242		
SCA0465-CAL9	Cal Standard	10		2310243		
SCA0465-CALA	Cal Standard	11		2310244		
SCA0465-CALB	Cal Standard	12		2310245		
SCA0465-CALC	Cal Standard	13		2310246		
SCA0465-CCV1	23F0359	14		2330124		
BCA0475-BLK1	Blank	15				
BCA0475-BLK2	Blank	16				
BCA0475-BS1	SOT	17				
BCA0475-BSD1	TCS Dup	18				
AC05562-01	SH-PCBA01-01	19				
AC05562-02	SH-PCBA02-01	20				
ag AC05562-03	SH-PCBA03-01	21				
145 of						
17 Tubles Foaded By		Date			Page 1 of 2	Data Processed By Date

Printed: 05/14/2024 5:39 pm

Sequence Date: 01/16/2024

Analysis Sequence

SCA0465 (Continued)

GC-SVOA GCECD-L AA40009 Department:

Instrument: Calibration ID:

Comments														
ISTD ID														
STD ID				2330124										2330124
Position														
Order	22	23	24	25	26	27	28	59	30	31	32	33	34	35
Sample Name	SH-PCBA04-01	SH-PCBA05-01	SH-PCBA06-01	Calibration Check	SH-PCBA07-01	SH-PCBA08-01	SH-PCBA09-01	SH-PCBA10-01	SH-PCBA11-01	SH-PCBA12-01	SH-PCBA13-01	SH-PCBA14-01	MRL Check	005
Lab Number	AC05562-04	AC05562-05	AC05562-06	SCA0465-CCV2	AC05562-07	AC05562-08	AC05562-09	AC05562-10	AC05562-11	AC05562-12	AC05562-13	AC05562-14	BCA0476-MRL1	SCA0465-CCV3

Data Processed By

Date

Page 2 of 2

Date

Ag papeor saldul Page 146 of 175

Sequence Date: 05/02/2024

Analysis Sequence

SCE0475

Department:

GC-SVOA GCECD-L AA40009 Instrument: Calibration ID:

Lab Number	Sample Name	Order	Position	STD ID	di disi	Comments
SCE0475-CCV1	Calibration Check	1		24B1163		
BCD2253-BLK1	Blank	2				
BCD2253-BLK2	Blank	3				
BCD2253-BS1	TCS	4				
BCD2253-BSD1	TCS Dup	2				
BCD2254-MRL1	MRL Check	9				
AC15354-01	A-10-400-042424	7				
AC15354-02	A-07-510E-042424	8				
AC15354-03	A-08-526-042424	6				
AC15354-04	A-05-608J-042424	10				
AC15354-05	A-06-635-042424	11				
SCE0475-CCV2	Calibration Check	12		24B1163		
AC15354-06	A-04-714B-042424	13				
AC15354-07	DUP-03-742-042424	14				
AC15354-08	A-03-742-042424	15				
AC15354-09	A-14-ROOF-042424	16				
AC15369-01	A-13-106-042424	17				
AC15369-02	DUP-01-106-042424	18				
AC15369-03	A-15-117-042424	19				
AC15369-04	A-11-209-042424	20				
B AC15369-05	A-12-228-042424	21				
147 of						
17 Inples Loaded By		Date			Page 1 of 2	Data Processed By Date

Sequence Date: 05/02/2024

Analysis Sequence

SCE0475

(Continued)

GC-SVOA GCECD-L Department: Instrument:

AA40009 Calibration ID:

Comments ISTD ID STD ID 24B1163 24B1163 Position Order 22 23 24 25 26 28 27 Blank-01-117-042424 DUP-02-402G-042424 A-09-402G-042424 A-02-317F-042424 A-01-216-042424 Calibration Check Sample Name 200 SCE0475-CCV4 SCE0475-CCV3 Lab Number AC15369-09 AC15369-10 AC15369-06 AC15369-08 AC15369-07

Data Processed By

Date

Page 2 of 2

Date

Page 148 of 175

Standard Traceability

Standard ID: 23G0224 **Date Prepared:** 07/13/2023

PCB 608 Spike **Date Expires:** 01/13/2024 Description:

acetone 23F0418 C Solvent: Prepared by: Roseann Giordano Lot Number:

Final Volume (mL:s): 200.0000 Comments:

test element 22g0357 1016/1260 23D0297 A

23G0224 Prepared from the following standards:

Parent Std ID Lot # Vol (mLs) 23D0297 A0191718 0.2000

Analyte	Concentration	Units	
Aroclor-1016	1.0000	ug/mL	
Aroclor-1016 [2C]	1.0000	ug/mL	
Aroclor-1260	1.0000	ug/mL	
Aroclor-1260 [2C]	1.0000	ug/mL	

Vendor: In House

 Standard ID:
 23/0241
 Date Prepared:
 09/14/2023

 Page Printed:
 02/20/2024

Description:Aroclor 2154 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl John

Lot Number: na Vendor: In-House

Comments: 23H0755B **Final Volume (mL:s):** 25.0000

23I0241 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0755	na	2.5000

Analyte	Concentration	Units
Aroclor-1221	0.0500	ug/g
Aroclor-1221 [2C]	0.0500	ug/g
Aroclor-1221{1}	0.0500	ug/g
Aroclor-1221{1} [2C]	0.0500	ug/g
Aroclor-1221{2}	0.0500	ug/g
Aroclor-1221{2} [2C]	0.0500	ug/g
Aroclor-1221{3}	0.0500	ug/g
Aroclor-1221{3} [2C]	0.0500	ug/g
Aroclor-1221{4}	0.0500	ug/g
Aroclor-1221{4} [2C]	0.0500	ug/g
Aroclor-1221{5}	0.0500	ug/g
Aroclor-1221{5} [2C]	0.0500	ug/g
Aroclor-1254	0.0500	ug/g
Aroclor-1254 [2C]	0.0500	ug/g
Aroclor-1254{1}	0.0500	ug/g
Aroclor-1254{1} [2C]	0.0500	ug/g
Aroclor-1254{2}	0.0500	ug/g
Aroclor-1254{2} [2C]	0.0500	ug/g
Aroclor-1254{3}	0.0500	ug/g
Aroclor-1254{3} [2C]	0.0500	ug/g
Aroclor-1254{4}	0.0500	ug/g
Aroclor-1254{4} [2C]	0.0500	ug/g
Aroclor-1254{5}	0.0500	ug/g
Aroclor-1254{5} [2C]	0.0500	ug/g
Aroclor-1254{6}	0.0500	ug/g
Aroclor-1254{6} [2C]	0.0500	ug/g
Decachlorobiphenyl	0.0050	ug/g
Decachlorobiphenyl [2C]	0.0050	ug/g
Tetrachloro-m-xylene	0.0050	ug/g
Tetrachloro-m-xylene [2C]	0.0050	ug/g

Standard ID: 23/02/42 Date Prepared: 09/13/2023

Description:Aroclor 1232 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl

Solvent: Hexane 23H0198O Prepared by: Averyl John
Lot Number: na Vendor: In-House

Comments: 23H0757B **Final Volume (mL:s):** 25.0000

2310242 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0757	na	2.5000

Analyte	Concentration	Units
Aroclor-1232	0.0500	ug/mL
Aroclor-1232 [2C]	0.0500	ug/mL
Aroclor-1232{1}	0.0500	ug/mL
Aroclor-1232{1} [2C]	0.0500	ug/mL
Aroclor-1232{2}	0.0500	ug/mL
Aroclor-1232{2} [2C]	0.0500	ug/mL
Aroclor-1232{3}	0.0500	ug/mL
Aroclor-1232{3} [2C]	0.0500	ug/mL
Aroclor-1232{4}	0.0500	ug/mL
Aroclor-1232{4} [2C]	0.0500	ug/mL
Aroclor-1232{5}	0.0500	ug/mL
Aroclor-1232{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

 Standard ID:
 23/0243

 Date Prepared:
 09/14/2023

Description:Aroclor 1242 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl John

Lot Number: na Vendor: In-House

Comments: 23H0758B **Final Volume (mL:s):** 25.0000

23I0243 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0758	na	2.5000

Analyte	Concentration	Units
Aroclor-1242	0.0500	ug/mL
Aroclor-1242 [2C]	0.0500	ug/mL
Aroclor-1242{1}	0.0500	ug/mL
Aroclor-1242{1} [2C]	0.0500	ug/mL
Aroclor-1242{2}	0.0500	ug/mL
Aroclor-1242{2} [2C]	0.0500	ug/mL
Aroclor-1242{3}	0.0500	ug/mL
Aroclor-1242{3} [2C]	0.0500	ug/mL
Aroclor-1242{4}	0.0500	ug/mL
Aroclor-1242{4} [2C]	0.0500	ug/mL
Aroclor-1242{5}	0.0500	ug/mL
Aroclor-1242{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 2310244 Date Prepared: 09/14/2023

Description:Aroclor 1248 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl John

Lot Number: na Vendor: In-House

Comments: 23H0759B **Final Volume (mL:s):** 25.0000

23I0244 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0759	na	2.5000

Analyte	Concentration	Units
Aroclor-1248	0.0500	ug/mL
Aroclor-1248 [2C]	0.0500	ug/mL
Aroclor-1248{1}	0.0500	ug/mL
Aroclor-1248{1} [2C]	0.0500	ug/mL
Aroclor-1248{2}	0.0500	ug/mL
Aroclor-1248{2} [2C]	0.0500	ug/mL
Aroclor-1248{3}	0.0500	ug/mL
Aroclor-1248{3} [2C]	0.0500	ug/mL
Aroclor-1248{4}	0.0500	ug/mL
Aroclor-1248{4} [2C]	0.0500	ug/mL
Aroclor-1248{5}	0.0500	ug/mL
Aroclor-1248{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 2310245 **Date Prepared:** 09/14/2023

Description:Aroclor 1262 50 ug/LDate Expires:02/29/2024Solvent:Hexane 23H0198OPrepared by: Averyl

Solvent: Hexane 23H0198O Prepared by: Averyl John
Lot Number: na Vendor: In-House

Comments: 23H0761B Final Volume (mL:s): 25.0000

23I0245 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 23H0761
 na
 2.5000

Analyte	Concentration	Units
Aroclor-1262	0.0500	ug/mL
Aroclor-1262 [2C]	0.0500	ug/mL
Aroclor-1262{1}	0.0500	ug/mL
Aroclor-1262{1} [2C]	0.0500	ug/mL
Aroclor-1262{2}	0.0500	ug/mL
Aroclor-1262{2} [2C]	0.0500	ug/mL
Aroclor-1262{3}	0.0500	ug/mL
Aroclor-1262{3} [2C]	0.0500	ug/mL
Aroclor-1262{4}	0.0500	ug/mL
Aroclor-1262{4} [2C]	0.0500	ug/mL
Aroclor-1262{5}	0.0500	ug/mL
Aroclor-1262{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

 Standard ID:
 23/0246

 Date Prepared:
 09/14/2023

 Description:
 Aroclor 1268 50 ug/L
 Date Expires:
 02/29/2024

 Solvent:
 Hexane 23H0198O
 Prepared by: Averyl

Solvent:Hexane 23H0198OPrepared by: Averyl JohnLot Number:naVendor: In-House

Comments: 23H0762B Final Volume (mL:s): 25.0000

2.5ml of 1268 500ug/l standard into a 25ml flask.

2310246 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23H0762	na	2.5000

Analyte	Concentration	Units
Aroclor-1268	0.0500	ug/mL
Aroclor-1268 [2C]	0.0500	ug/mL
Aroclor-1268{1}	0.0500	ug/mL
Aroclor-1268{1} [2C]	0.0500	ug/mL
Aroclor-1268{2}	0.0500	ug/mL
Aroclor-1268{2} [2C]	0.0500	ug/mL
Aroclor-1268{3}	0.0500	ug/mL
Aroclor-1268{3} [2C]	0.0500	ug/mL
Aroclor-1268{4}	0.0500	ug/mL
Aroclor-1268{4} [2C]	0.0500	ug/mL
Aroclor-1268{5}	0.0500	ug/mL
Aroclor-1268{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

 Standard ID:
 23J0124
 Date Prepared:
 10/05/2023

 Description:
 1660 CCV 50
 Date Expires:
 02/29/2024

Solvent: Hexane 23H0198N Prepared by: Thomas Lindsay

Lot Number: 231763 Vendor: Fisher

Comments: 2 and the half ml of 1660 CCV 500 standard in 25ml flask of Hexane. Final Volume (mL:s): 25.0000

23J0124 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
2310544	NA	2.5000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 24A0054

Used aliquot A. Created aliquot A, B, C.

Description: 1660 Cal Std 250ug/L **Solvent:** Hexane 23J0201L

Lot Number: na

Comments:

Date Prepared: 11/28/2023 **Date Expires:** 06/28/2024

Prepared by: Thomas Lindsay

Vendor: In-House

Final Volume (mL:s): 100.0000

24A0054 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
24A0053	na	50.0000

Analyte	Concentration	Units
Aroclor-1016	0.2500	ug/mL
Aroclor-1016 [2C]	0.2500	ug/mL
Aroclor-1016{1}	0.2500	ug/mL
Aroclor-1016{1} [2C]	0.2500	ug/mL
Aroclor-1016{2}	0.2500	ug/mL
Aroclor-1016{2} [2C]	0.2500	ug/mL
Aroclor-1016{3}	0.2500	ug/mL
Aroclor-1016{3} [2C]	0.2500	ug/mL
Aroclor-1016{4}	0.2500	ug/mL
Aroclor-1016{4} [2C]	0.2500	ug/mL
Aroclor-1016{5}	0.2500	ug/mL
Aroclor-1016{5} [2C]	0.2500	ug/mL
Aroclor-1260	0.2500	ug/mL
Aroclor-1260 [2C]	0.2500	ug/mL
Aroclor-1260{1}	0.2500	ug/mL
Aroclor-1260{1} [2C]	0.2500	ug/mL
Aroclor-1260{2}	0.2500	ug/mL
Aroclor-1260{2} [2C]	0.2500	ug/mL
Aroclor-1260{3}	0.2500	ug/mL
Aroclor-1260{3} [2C]	0.2500	ug/mL
Aroclor-1260{4}	0.2500	ug/mL
Aroclor-1260{4} [2C]	0.2500	ug/mL
Aroclor-1260{5}	0.2500	ug/mL
Aroclor-1260{5} [2C]	0.2500	ug/mL
Decachlorobiphenyl	0.0250	ug/mL
Decachlorobiphenyl [2C]	0.0250	ug/mL
Tetrachloro-m-xylene	0.0250	ug/mL
Tetrachloro-m-xylene [2C]	0.0250	ug/mL

 Standard ID:
 24A0055

 Date Prepared:
 12/28/2023

Description:1660 Cal Std 100ug/LDate Expires:06/28/2024Solvent:Hexane 23J0201LPrepared by: Thomas Lindsay

Lot Number: na Vendor: In-House

Comments: Used aliquot A. Created aliquot A, B, C. Final Volume (mL:s): 100.0000

24A0055 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0054
 na
 40.0000

Analyte	Concentration	Units
Aroclor-1016	0.1000	ug/mL
Aroclor-1016 [2C]	0.1000	ug/mL
Aroclor-1016{1}	0.1000	ug/mL
Aroclor-1016{1} [2C]	0.1000	ug/mL
Aroclor-1016{2}	0.1000	ug/mL
Aroclor-1016{2} [2C]	0.1000	ug/mL
Aroclor-1016{3}	0.1000	ug/mL
Aroclor-1016{3} [2C]	0.1000	ug/mL
Aroclor-1016{4}	0.1000	ug/mL
Aroclor-1016{4} [2C]	0.1000	ug/mL
Aroclor-1016{5}	0.1000	ug/mL
Aroclor-1016{5} [2C]	0.1000	ug/mL
Aroclor-1260	0.1000	ug/mL
Aroclor-1260 [2C]	0.1000	ug/mL
Aroclor-1260{1}	0.1000	ug/mL
Aroclor-1260{1} [2C]	0.1000	ug/mL
Aroclor-1260{2}	0.1000	ug/mL
Aroclor-1260{2} [2C]	0.1000	ug/mL
Aroclor-1260{3}	0.1000	ug/mL
Aroclor-1260{3} [2C]	0.1000	ug/mL
Aroclor-1260{4}	0.1000	ug/mL
Aroclor-1260{4} [2C]	0.1000	ug/mL
Aroclor-1260{5}	0.1000	ug/mL
Aroclor-1260{5} [2C]	0.1000	ug/mL
Decachlorobiphenyl	0.0100	ug/mL
Decachlorobiphenyl [2C]	0.0100	ug/mL
Tetrachloro-m-xylene	0.0100	ug/mL
Tetrachloro-m-xylene [2C]	0.0100	ug/mL

Standard ID: 24A0056 Date Prepared: 12/28/2023

Description:1660 Cal Std 50ug/LDate Expires:06/28/2024Solvent:Hexane 23J0201LPrepared by: Thomas Lin

Solvent: Hexane 23J0201L Prepared by: Thomas Lindsay
Lot Number: na Vendor: In-House

Comments: Used aliquot A. Created aliquot A, B, C. Final Volume (mL:s): 100.0000

24A0056 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0055
 na
 50.0000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 24A0633

Description: 1660 Cal Std 25ug/L **Solvent:** Hexane 23J0201Q

Lot Number: na

Comments:

Date Prepared: 01/16/2024 **Date Expires:** 06/28/2024

Prepared by: Thomas Lindsay

Vendor: In-House

Final Volume (mL:s): 100.0000

24A0633 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0056
 na
 50.0000

Used aliquot A. Created aliquot A, B, C.

Analyte	Concentration	Units
Aroclor-1016	0.0250	ug/mL
Aroclor-1016 [2C]	0.0250	ug/mL
Aroclor-1016{1}	0.0250	ug/mL
Aroclor-1016{1} [2C]	0.0250	ug/mL
Aroclor-1016{2}	0.0250	ug/mL
Aroclor-1016{2} [2C]	0.0250	ug/mL
Aroclor-1016{3}	0.0250	ug/mL
Aroclor-1016{3} [2C]	0.0250	ug/mL
Aroclor-1016{4}	0.0250	ug/mL
Aroclor-1016{4} [2C]	0.0250	ug/mL
Aroclor-1016{5}	0.0250	ug/mL
Aroclor-1016{5} [2C]	0.0250	ug/mL
Aroclor-1260	0.0250	ug/mL
Aroclor-1260 [2C]	0.0250	ug/mL
Aroclor-1260{1}	0.0250	ug/mL
Aroclor-1260{1} [2C]	0.0250	ug/mL
Aroclor-1260{2}	0.0250	ug/mL
Aroclor-1260{2} [2C]	0.0250	ug/mL
Aroclor-1260{3}	0.0250	ug/mL
Aroclor-1260{3} [2C]	0.0250	ug/mL
Aroclor-1260{4}	0.0250	ug/mL
Aroclor-1260{4} [2C]	0.0250	ug/mL
Aroclor-1260{5}	0.0250	ug/mL
Aroclor-1260{5} [2C]	0.0250	ug/mL
Decachlorobiphenyl	0.0025	ug/mL
Decachlorobiphenyl [2C]	0.0025	ug/mL
Tetrachloro-m-xylene	0.0025	ug/mL
Tetrachloro-m-xylene [2C]	0.0025	ug/mL

Standard ID: 24A0634

Description: 1660 Cal Std 10ug/L **Solvent:** Hexane 23J0201Q

Lot Number: na

Comments:

Date Prepared: 01/16/2024 **Date Expires:** 06/28/2024

Prepared by: Thomas Lindsay

Vendor: In-House

Final Volume (mL:s): 100.0000

Used aliquot A. Created aliquot A, B, C.

24A0634 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 24A0633
 na
 40.0000

Analyte	Concentration	Units
Aroclor-1016	0.0100	ug/mL
Aroclor-1016 [2C]	0.0100	ug/mL
Aroclor-1016{1}	0.0100	ug/mL
Aroclor-1016{1} [2C]	0.0100	ug/mL
Aroclor-1016{2}	0.0100	ug/mL
Aroclor-1016{2} [2C]	0.0100	ug/mL
Aroclor-1016{3}	0.0100	ug/mL
Aroclor-1016{3} [2C]	0.0100	ug/mL
Aroclor-1016{4}	0.0100	ug/mL
Aroclor-1016{4} [2C]	0.0100	ug/mL
Aroclor-1016{5}	0.0100	ug/mL
Aroclor-1016{5} [2C]	0.0100	ug/mL
Aroclor-1260	0.0100	ug/mL
Aroclor-1260 [2C]	0.0100	ug/mL
Aroclor-1260{1}	0.0100	ug/mL
Aroclor-1260{1} [2C]	0.0100	ug/mL
Aroclor-1260{2}	0.0100	ug/mL
Aroclor-1260{2} [2C]	0.0100	ug/mL
Aroclor-1260{3}	0.0100	ug/mL
Aroclor-1260{3} [2C]	0.0100	ug/mL
Aroclor-1260{4}	0.0100	ug/mL
Aroclor-1260{4} [2C]	0.0100	ug/mL
Aroclor-1260{5}	0.0100	ug/mL
Aroclor-1260{5} [2C]	0.0100	ug/mL
Decachlorobiphenyl	0.0010	ug/mL
Decachlorobiphenyl [2C]	0.0010	ug/mL
Tetrachloro-m-xylene	0.0010	ug/mL
Tetrachloro-m-xylene [2C]	0.0010	ug/mL

Standard ID: 24A0635 **Date Prepared:** 01/16/2024 **Date Expires:** 06/28/2024

1660 Cal Std 5ug/L Description: Solvent: Hexane 23J0201Q

Prepared by: Thomas Lindsay Lot Number: Vendor: In-House

Final Volume (mL:s): 100.0000

Comments: Used aliquot A. Created aliquot A, B, C.

24A0635 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
24A0634	na	50.0000

Analyte	Concentration	Units
Aroclor-1016	0.0050	ug/mL
Aroclor-1016 [2C]	0.0050	ug/mL
Aroclor-1016{1}	0.0050	ug/mL
Aroclor-1016{1} [2C]	0.0050	ug/mL
Aroclor-1016{2}	0.0050	ug/mL
Aroclor-1016{2} [2C]	0.0050	ug/mL
Aroclor-1016{3}	0.0050	ug/mL
Aroclor-1016{3} [2C]	0.0050	ug/mL
Aroclor-1016{4}	0.0050	ug/mL
Aroclor-1016{4} [2C]	0.0050	ug/mL
Aroclor-1016{5}	0.0050	ug/mL
Aroclor-1016{5} [2C]	0.0050	ug/mL
Aroclor-1260	0.0050	ug/mL
Aroclor-1260 [2C]	0.0050	ug/mL
Aroclor-1260{1}	0.0050	ug/mL
Aroclor-1260{1} [2C]	0.0050	ug/mL
Aroclor-1260{2}	0.0050	ug/mL
Aroclor-1260{2} [2C]	0.0050	ug/mL
Aroclor-1260{3}	0.0050	ug/mL
Aroclor-1260{3} [2C]	0.0050	ug/mL
Aroclor-1260{4}	0.0050	ug/mL
Aroclor-1260{4} [2C]	0.0050	ug/mL
Aroclor-1260{5}	0.0050	ug/mL
Aroclor-1260{5} [2C]	0.0050	ug/mL
Decachlorobiphenyl	0.0005	ug/mL
Decachlorobiphenyl [2C]	0.0005	ug/mL
Tetrachloro-m-xylene	0.0005	ug/mL
Tetrachloro-m-xylene [2C]	0.0005	ug/mL

 Standard ID:
 24A0636
 Date Prepared:
 01/16/2024

 Description:
 1660 ICV 50ug/L
 Date Expires:
 05/02/2024

Solvent: Hexane 23J0201Q Prepared by: Thomas Lindsay

Lot Number: na Vendor: In-House

Comments: Used vial A Created vails a and B Final Volume (mL:s): 50.0000

24A0636 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
23K0081	na	5.0000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL

Standard ID: 24A1093 **Date Prepared:** 01/30/2024

608 Spike **Date Expires:** 07/28/2024 Description:

Solvent: Acetone 23I0253 Prepared by: Maxwell Baier A0198397 Lot Number:

Vendor: In-House

Final Volume (mL:s): 200.0000 Comments: 100 mL Acetone

Aroclor 1016/1260 24A0123A

24A1093 Prepared from the following standards:

Parent Std ID Lot # Vol (mLs) 24A0123 A0198397 0.2000

Analyte	Concentration	Units
Aroclor-1016	1.0000	ug/mL
Aroclor-1016 [2C]	1.0000	ug/mL
Aroclor-1260	1.0000	ug/mL
Aroclor-1260 [2C]	1.0000	ug/mL

 Standard ID:
 24A1129

 Date Prepared:
 01/31/2024

Description:PCB/ Pest SurrogateDate Expires:07/29/2024Solvent:Acetone 23I0253Prepared by: Maxwell

Solvent: Acetone 2310253 Prepared by: Maxwell Baier
Lot Number: N/A Vendor: In-House

Comments: Pest Surrogate Mix: 24A0112 C Final Volume (mL:s): 200.0000

Lot # A0203741

24A1129 Prepared from the following standards:

 Parent Std ID
 Lot #
 Vol (mLs)

 22H0064
 A0185124
 1.0000

Analyte	Concentration	Units	
Decachlorobiphenyl	1.0000	ug/mL	
Decachlorobiphenyl [2C]	1.0000	ug/mL	
Tetrachloro-m-xylene	1.0000	ug/mL	
Tetrachloro-m-xylene [2C]	1.0000	ug/mL	

 Standard ID:
 24B1163
 Date Prepared:
 02/29/2024

 Description:
 1660 CCV 50
 Date Expires:
 06/12/2024

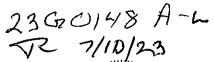
Solvent:Hexane 24B0290Prepared by: Thomas LindsayLot Number:23L1861094Vendor: VWR

Comments: 2 and the half ml of 1660 CCV 500 standard in 25ml flask of Hexane. Final Volume (mL:s): 25.0000

24B1163 Prepared from the following standards:

Parent Std ID	Lot #	Vol (mLs)
24B0367	NA	2.5000

Analyte	Concentration	Units
Aroclor-1016	0.0500	ug/mL
Aroclor-1016 [2C]	0.0500	ug/mL
Aroclor-1016{1}	0.0500	ug/mL
Aroclor-1016{1} [2C]	0.0500	ug/mL
Aroclor-1016{2}	0.0500	ug/mL
Aroclor-1016{2} [2C]	0.0500	ug/mL
Aroclor-1016{3}	0.0500	ug/mL
Aroclor-1016{3} [2C]	0.0500	ug/mL
Aroclor-1016{4}	0.0500	ug/mL
Aroclor-1016{4} [2C]	0.0500	ug/mL
Aroclor-1016{5}	0.0500	ug/mL
Aroclor-1016{5} [2C]	0.0500	ug/mL
Aroclor-1260	0.0500	ug/mL
Aroclor-1260 [2C]	0.0500	ug/mL
Aroclor-1260{1}	0.0500	ug/mL
Aroclor-1260{1} [2C]	0.0500	ug/mL
Aroclor-1260{2}	0.0500	ug/mL
Aroclor-1260{2} [2C]	0.0500	ug/mL
Aroclor-1260{3}	0.0500	ug/mL
Aroclor-1260{3} [2C]	0.0500	ug/mL
Aroclor-1260{4}	0.0500	ug/mL
Aroclor-1260{4} [2C]	0.0500	ug/mL
Aroclor-1260{5}	0.0500	ug/mL
Aroclor-1260{5} [2C]	0.0500	ug/mL
Decachlorobiphenyl	0.0050	ug/mL
Decachlorobiphenyl [2C]	0.0050	ug/mL
Tetrachloro-m-xylene	0.0050	ug/mL
Tetrachloro-m-xylene [2C]	0.0050	ug/mL





CERTIFIED REFERENCE MATERIAL





110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

Certificate of Analysis

ilac MRA



www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32000

Lot No.: A0197094

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

July 31, 2029

Storage:

Ship:

10°C or colder

Ambient

Handling:

Contains PCBs - sonicate prior to

use.

CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	201.2 μg/mL	+/- 11.1631
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	201.7 μg/mL	+/- 11.1898

^{*} Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

Acetone

CAS # 67-64-1 Purity 99%



Quality Confirmation Test

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

300°C

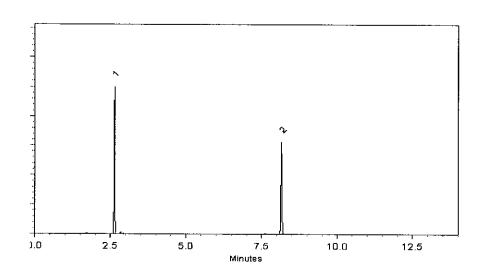
Det. Type:

EÇD

Split Vent:

10 ml/min.

Inj. Vol 1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed:

17-Apr-2023

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

24-Apr-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

23G0149 A-F



CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

110 Benner Circle Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

www.restek.com

Certificate of Analysis





FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

32039

Lot No.: A0191718

Description:

Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

February 28, 2029

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ambient Ship:

CERTIFIED VALUES

Elution Order		74	Compound	\$K	rije;	Grav. C (weight/v			Expanded (95% C.L.;	Uncertainty K=2)	+ 477-11-11
1 artical	Aroclor		(I at 1)			1,001.0	μg/mL	+/-	5.8332 31.7173	μg/mL	Gravimetric Unstressed
	CAS # Purity	12674-11-2 %	(Lot 4)					+/-	41.4374	μg/mL μg/mL	Stressed
2	Aroclor	1260				1,001.1	μg/mL	+/-	5.8336	μg/mL	Gravimetric
	CAS#	11096-82-5	(Lot 1294610)					+/-	31.7197	$\mu g/mL$	Unstressed
	Purity	%						+/-	41.4405	μg/mL	Stressed

Solvent:

Hexane

CAS#

110-54-3

Purity

99%

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

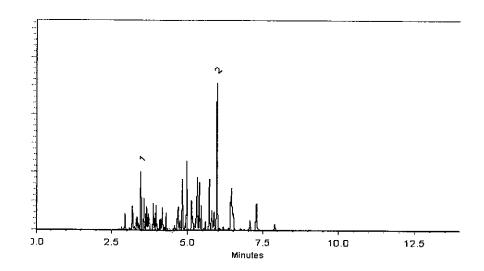
250°C

Det. Temp:

300°C

Det. Type:

ECD ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech 1

Date Mixed:

15-Nov-2022

Balance: 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed:

17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397



2340152 A,B

ISO 17034

Reference Material Certificate Product Information Sheet

Product Name:

Calibration Standard

Lot Number:

0006740524

Product Number:

PPM-8082-1

Lot Issue Date:

17-Apr-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 30-Nov-2029

Component Name	Concentrati	по	Uncertainty	CAS#	Analyte Lot
Aroclor 1016	1004	±	5 μg/mL	012674-11-2	NT01016
Aroclor 1260	1004		5 µg/mL	011096-82-5	NT01023

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Page: 1 of 2

CSD-QA-015.2

ISO 17025 Cert No. AT-1937



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois QMS Representative



ISO 17034 Cert No. AR-1936 RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321
Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.2

ISO 17025 Cert No. AT-1937 This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

32039 Catalog No.:

Lot No.: A0198397

Description:

Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

24 A 0123 72 1/3/24

2 mL Container Size:

August 31, 2029

Expiration Date:

Handling:

Pkg Amt: > 1 mL

25°C nominal

Ambient

Storage: Ship: This product contains PCBs. VALUES CERTIFIED

Elution Order	Compound	CAS#		Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
	Aroclor 1016	12674-11-2 07	07	%	% 1,001.0 µg/mL	+/- 55.5375
	Aroclor 1260	11096-82-5 1348808	1348808	%	% 1,005.4 μg/mL	+/- 55.7789

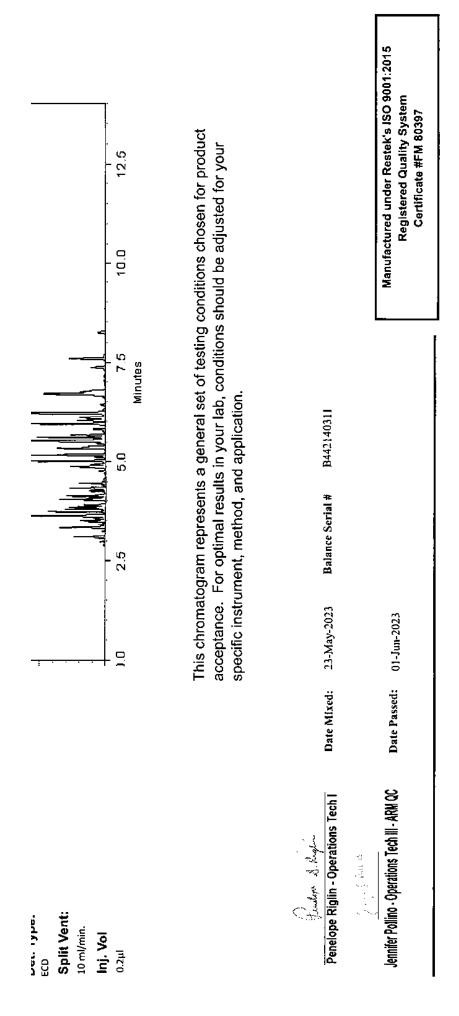
* Expanded Uncertainty displayed in same units as Grav. Conc.

Hexane Solvent:

110-54-3 CAS#

%66

Purity



Appendix E2 Air Sample Field Data Sheets

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

		F	TELD TE	CST DATA	A SHEET	(FTDS)				
I. GENERA	AL INFOR	RMATION	1							
SITE: \(\frac{1}{2}\) LOCATINSTRUPUMP	V(SU, PA FION:	MODEL NO.:	ISLANDINA IA	CALI	E(S) SAM TIME PER OPERATO IBRATED LAIN:	IOD SAM R: <u>May</u> BY: <u>Mo</u>	PLED:_ C We WC We	24 hr	5/24	•
ADSOI	RBENT C	ARTRIDO	GE INFOI	RMATION	J:					
Type: Adsorbent: Serial No.: Sample No.:	Blu	10-21	12F retnane 067	Cartridge		rtridge 3	Cartrid	ge 4	- - - -	
									Total	ĺ
Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	$\overline{}$	(Q), mL/min Cartridge 2	Samplin Start	g Period Stop	Total Sampling Time, min.	Sample Volume, L	
021667	117	71.0	30.04	NIA	NA	0655	1855	720		
_ ` `	1 X	% ·	1 (Pi	1.3	0643	1843	720		1
-										l
										(m)
III. FIELD A	AUDIT									
			Cartridge 1	<u>Cartrid</u>	ge 2	Cartridge	<u>3</u> <u>C</u> a	artridge 4		
	low Check f Set Point	_	ore-	pr	-e-	pre	-	pre-	1	
			post-	po	ost-	pos	st-	post-		
CHECK	FD BY:									

Figure 5. Compendium Method TO-10A field test data sheet.

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I.	GENERAL	INFORMATION	

LOCATION INSTRUM	v, paleign, NC	TIME OPEI CALIBRA	E PERIOD SAM RATOR: <u>M</u>	ire Webb	
ADSORBE	NT CARTRIDGE INFO	RMATION:			
Type: Adsorbent: Serial No.:	Cartridge 1 Tube Pix Polywermore 02110107	Cartridge 2	Cartridge 3	Cartridge 4	3) -4
Sample No.:	A-13-1010-041114		·		(a)

II. SAMPLING DATA

Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Q), milmin Cartridge 2	Samplin Start	g Period Stop	Total Sampling Time, min.	Total Sample Volume, L
321667	106	67.6	30.04	5.0	NIA	0638	1843	720	3571
51	31	45	11	5.0	N/A	0638	1842	720	357
		N							

III. FIELD AUDIT

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within 10% of Set Point (Y/N)?	5.00 pre-4.92	pre-	pre-	pre-
	post-	post-	post-	post-
CHECKED BY:				
DATE:				

Figure 5. Compendium Method TO-10A field test data sheet,

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERAL INFORMATION

PROJECT: NUSU PH	DATE(S) SAMPLED: 04 24 - 23/24
SITE: NCSU, Rateigh, NC	TIME PERIOD SAMPLED: 34 VOICE
LOCATION: 106 (Bup)	OPERATOR: Morc Webb
INSTRUMENT MODEL NO.: 40	CALIBRATED BY: Marc Webb
PLIMP SERIAL NO: 30141136105	RAIN: YES - NO

ADSORBENT CARTRIDGE INFORMATION:

Type: Adsorbent: Serial No.:	Cartridge 1 TUBE PUF POYUSEMME	Cartridge 2	Cartridge 3	Cartridge 4
Sample No.:	D18-02-400-041	434	s 8:	

II. SAMPLING DATA

Cartridge			Ambient	Flow Rate (Q), mL/min	Samplin	ıg Period	Total	Total Sample
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L
031667	106	67.6	30,04	5.0		06:39	1843	720	3670
**	N.X	N.	8.6	84		0638	1842	720	3629
-									

III. FIELD AUDIT

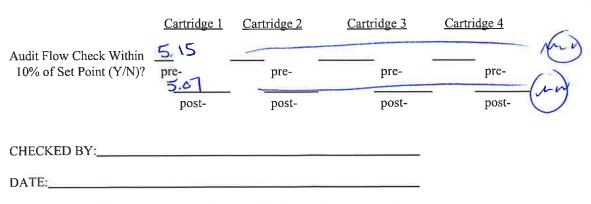


Figure 5. Compendium Method TO-10A field test data sheet.

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

		F	TELD TE	ST DATA	SHEET	(FTDS)				
I. GENER	AL INFOR	RMATION	1							
SITE: LOCA' INSTR	CT:NCSU_C FION: UMENT I SERIAL I	MODEL N	30: 64	CALI	IME PER PERATO BRATED	PLED: 4 IOD SAM PR: May BY: May YES	PLED:_ C We are h	24h	4 √s	
ADSO	RBENT C	ARTRIDO	GE INFOR	RMATION	I:					
Type: Adsorbent: Serial No.: Sample No.:		Cartridge TVDe Dolum 0216 7-15-1	Put	Cartridge	2 Ca	rtridge 3	Cartrid	ge 4		
II. SAMPL	ING DAT	^C A								
Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Samplin Start	g Period Stop	Total Sampling Time, min.	Total Sample Volume, L	
021667	117	71.0	30.04	5.0	MA	0647	1850	720	3740	
	- \	17 3	. \	~~	* \	0643	1848	720	3740	
								-		
										- A
										Jung
III. FIELD	AUDIT									
		!	<u>Cartridge 1</u>	<u>Cartrid</u>	<u>ge 2</u>	Cartridge	3 <u>C</u>	artridge 4	D)	
	low Check		-27		e-	pre	-	pre-	N	
	low Check f Set Point		5:17	pr		pre		pre-	_@	
			post-	_	e- est-	pre		pre-	_	

Figure 5. Compendium Method TO-10A field test data sheet.

DATE:_

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

		F	TELD TE	EST DATA	A SHEET	(FTDS)				
I. GENERA	AL INFOR	RMATION	1							
SITE:_ LOCAT INSTR PUMP	TION: UMENT I SERIAL I	MODEL NO.: 30	10::72	T CAL	E(S) SAM TIME PER DPERATO IBRATED RAIN:	IOD SAM R: <u>Mac</u> BY: <u>Ma</u>	PLED:_ Clueby rc Wel	24 NG		
Type: Adsorbent: Serial No.: Sample No.:		Cartridge Tobe (Dolyford 2100 A-11-2	thone	Cartridge	2 Ca	rtridge 3	Cartrid	ge 4	- - - ම	
II. SAMPL	ING DAT	ΓA								
Cartridge Identification	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Cartridge 2	Samplin Start	g Period Stop	Total Sampling Time, min.	Total Sample Volume, L	
~		· '	15	8-	~	2648	1853	720	3672	
III. FIELD	AUDIT		0 (11 1	C 1	2	Cartaidas	2 C	autuidaa 1		-h
	low Check f Set Point	Within 5	Cartridge 1	pı	ge 2	Cartridge pre pre	-	pre-		
СНЕСК	ED BY:_									

Figure 5. Compendium Method TO-10A field test data sheet.

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERA	AL INFOR	RMATION	V						
SITE: LOCA' INSTR PUMP	CT: NCSU ICSU, FAI TION: 2 UMENT I SERIAL I	MODEL NO.: 20	15030	T CALL	IME PER PERATO BRATED AIN:	IPLED:_6 IOD SAM OR:_Mar O BY:Mar _YES	IPLED: e web! ce web		VS
Type: Adsorbent: Serial No.: Sample No.:		Cartridge To be Polytrol	el RF_	Cartridge		rtridge 3	- Cartrid	ge 4 ©	- D
Cartridge Identifi-	Sampling	Ambient	Ambient Pressure, in	Flow Rate (LPM Q), MEHHim	Samplin	g Period	Total Sampling	Total Sample Volume,
cation	Location	Temp., °F	Hg	Cartridge 1	Cartridge 2	Start	Stop 1924	Time, min.	L
07/1681	216	5	3004	0.0	NIA	0120	0658	720	3777
		1				0653	0630		517
				-					
				İ					
III. FIELD	AUDIT	<u>.</u>	Cartridge 1	<u>Cartrid</u>	ge <u>2</u>	<u>Cartridge</u>	<u>3</u> <u>C</u> :	artridge 4	6
Andit El	ow Check	Within F	14						<u>a)</u>
Audit Fl	f Set Point	(Y/N)? p	5.17	pr	e-	pre	-	pre-	
			post-	pc	st-	pos	st-	post-	

Figure 5. Compendium Method TO-10A field test data sheet.

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERA	AL INFOF	RMATION	I							
SITE: A LOCA' INSTR	CT: NCSI ICSU LON ION: A UMENT M SERIAL M	MODEL N	10.:_33	CAL	TIME PER	IOD SAM R: <u>Marc</u> BY: <u>Ma</u>	vc Weldb	24 hvs		
ADSO)	RBENT C	ARTRID(GE INFOR	MATION	V :					
Type: Adsorbent: Serial No.:		Cartridge Tube Ou Polyland 02)	none (G)		2 Ca	rtridge 3	Cartrid	ge 4 P	-0 -0 -0	
Sample No.:		A-12-	228-04	2424					(D)	
II. SAMPL	ING DAT	^C A								
Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate	(Q) mL/min Cartridge 2	Samplii Start	ng Period i 937 Stop	Total Sampling Time, min.	Total Sample Volume, L	
081607	228	69.2	30.04	5.0	N/A	6733 0658	0702	720	3737	
			7	N 78		0620	0100	7/10	517	
III. FIELD	AUDIT									M
		!	<u>Cartridge 1</u>	Cartrid	gc 2	Cartridge	<u>c</u>	artridge 4	9	
	low Check							_6)	
10% o	f Set Point	(Y/N)? r	re-5/7	pı	re-	pr	-	pre-	_	
			post-	pe	ost-	po	st-	post-		ř
СНЕСК	KED BY:_									
DATE:										

Figure 5. Compendium Method TO-10A field test data sheet.

			IEED II	201 201111	CILLLI	(1100)				
I. GENERA	AL INFOR	RMATION	1							
SITE: LOCATINSTRIPUMP	ΓΙΟΝ: UMENT I SERIAL I	deigh, N 3 1 7 F MODEL N NO.: 20	10.: <u>76</u>	T CALI	IME PER PERATO BRATED AIN:	IOD SAN R: <u>Mave</u> BY: <u>Ma</u>	IPLED:_ Webb re Webb	4/25/24 24 V	AVS	•
ADSOL	XBENT C	AKTRIDO		WIATION						
Type: Adsorbent: Serial No.:		Cartridge Tube I	Of	Cartridge	2 Car	rtridge 3	Cartrid	ge 4	- - -	*
Sample No.:		A-02-	317F-042	42024				40	2)	
II. SAMPL	ING DAT	TA .								21
Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Q), mL/min Cartridge 2	Samplii Start	ng Period Stop	Total Sampling Time, min.	Total Sample Volume, L	
021667	317F	69.5	30.04	5.0	NA	6743	1948	723	3741	1
V V		- C (V X	~	^	0703	1908	720	3796	1
										ł
										İ
III. FIELD	AUDIT									(
		•	Cartridge 1	Cartrid	ge 2	Cartridge	: 3 <u>C</u> :	artridge 4		
	ow Check		5.30 ore-	pr	e-	pre	<u>-</u>	pre-		
10,00		().	5.74						how	
			post-	po	st-	po	st-	post-		
СНЕСК	ED BY:						_			

Figure 5. Compendium Method TO-10A field test data sheet.

т	CENED	A T	INFORM	# A	TION	
	CTE.NE.K	AΙ.	INFURN	ÆΑ	LIUN	

PROJECT:_		DATE(S)	SAMPLED:	1/24-25/24	
	J. Raleigh, N			PLED: 24 hr	
LOCATION:			RATOR: Ma		
INSTRUMEN	NT MODEL NO.: \	CALIBRA	A LED BY:	× NO	
PUMP SERIA	AL NO.: dol 110.	SCC RAIN	YES	<u>~</u> NO	
ADSORBEN	T CARTRIDGE INFO	ORMATION:			
	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4	
Type:	Tube, Pof	40	-		•
dsorbent:	Paymetron	e			
Serial No.:	0031667			-	=
	A-10-400-0474	17024			
mple No.:	A-400	* *	-	-	TO

II. SAMPLING DATA

Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Q), mL/min Cartridge 2	Samplin Start	g Period Stop	Total Sampling Time, min.	Total Sample Volume, L
021667	400	69.9	30.04	5.0	NIA	0757	0846	720	3733
3601	K ×	3.76	Secte.	5.6	E 1	0708	4150	720	3737
	2								
			·					-	(ma)

	Cartridge 1	<u>Cartridge 2</u> .	Cartridge 3	Cartridge 4
Audit Flow Check Within 10% of Set Point (Y/N)?	5.20			
	pre-5.17	pre-	pre-	pre-
	post-	post-	post-	post-
CHECKED BY:				
DATE:				

Figure 5. Compendium Method TO-10A field test data sheet.

SITE: UCS LOCATION	NCSU DH U, Laleign, UC V: 402C1 ENT MODEL NO::113 IAL NO::301411	TIME OPER	SAMPLED: E PERIOD SAM RATOR: MOYO ATED BY: I:YES	re Webb	<u>24</u>
ADSORBE	NT CARTRIDGE INFO		Cantaid as 2	Contrider A	
Type: Adsorbent: Serial No.:	Cartridge 1 The PUF PUF/XAD O 21667	Cartridge 2	Cartridge 3	Cartridge 4	
Sample No.:	A-09-4026-0476	7024	5 S		3

II. SAMPLING DATA

Cartridge			Ambient	Flow Rate (Q), Altimin	Samplin	ıg Period	Total	Total Sample	
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L	
021667	4026	68.4	30.04	5	NIA	0915	9300	819	473	3 4701
30 V.	n	≥ 40	~	9 💉		0607	1642	+440	300	7 2980
								581		
				_	-		I			
										-
*** *****									7	2,2

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within 10% of Set Point (Y/N)?	5.16 5.10	pre-	pre-	pre-
	post-	post-	post-	post-
CHECKED BY:				
DATE:			<u> </u>	

Figure 5. Compendium Method TO-10A field test data sheet.

I. GENERA	AL INFO	CMATION	1				Van	127		
SITE: LOCA' INSTR	TION: 4 UMENT I	SUCY ODEL N NO.: 30	10:197	CALI	IME PER PERATO IBRATED	IPLED: Old SAM OR: MARINE MARI	PLED: .cc W .arc V	elale	P. 2006 A	2
ADSO	RBENT C	ARTRIDO	GE INFOR	RMATION	J:					
Type: Adsorbent: Serial No.:		Cartridge TUSC PUF OX166	OAX Ta	Cartridge		rtridge 3	Cartrid	ge 4		
Sample No.:	Dale	-800 10	00.0	307					- La	
II. SAMPL	ING DAT	CA								
Cartridge Identification	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Cartridge 2	Samplin Start 0915	Stop といい	Total Sampling Time, min.	Total Sample Volume, L	<u>ک</u>
``	<u> </u>	(* (*)	~	2	M	0607	1643	627	36	
					100					
										- 1
III. FIELD	AUDIT									ma
		!	<u>Cartridge 1</u>	Cartrid	ge 2	Cartridge	<u>3 Ca</u>	artridge 4		
Audit F 10% o	low Check f Set Point	Within 5		pr	e- ost-	pre		pre-	-0	50
CHECK	ED BY:-									
DATE:										
DAIC						field test d	ata sheet			
	11	ismus. C	omponulu	111 141011100	1017	TIOIG COL (and offer.			

I. GENERAL INFORMATION

PROJECT: NCSU PH DATE(S) SAMPLED: 4/24-26/24
SITE: NCSU, Roleigh NC TIME PERIOD SAMPLED: 24 hours LOCATION: 510 E OPERATOR: Marc Webb
LOCATION: 510E OPERATOR: Marc Webb
INSTRUMENT MODEL NO.: 37 CALIBRATED BY: Marc Webb
PUMP SERIAL NO.: 20180820131 RAIN: YESNO

ADSORBENT CARTRIDGE INFORMATION:

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4	
Type:	Tube PUF		=1 :(i====================================		<u>_</u> s
Adsorbent:	polyurethone			-	_
Serial No.:	021667				
	A-07-510E-0424	AH			
Sample No.:	ASSISSE	-		_	-0
					-

II. SAMPLING DATA

Cartridge			Ambient	Flow Rate (LPM (Q), mL/min	Samplir	ıg Period	Total	Total Sample	
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L	
021667	510E	68.3	30.04	5.0	NIA	0757	1524	447	759	4
×8	N.W	**	X)	802	1 200	3003	2056	53	276	
Ne	184	1 2	741.9	Us	žos	0757	1109	192	998	
	v _g	8.5	**	(K)	387		2130	563	299	9
(A)	9.0	Sec.	12	5.0	34	0817	1124	136	967	
				2.2	350 N					m

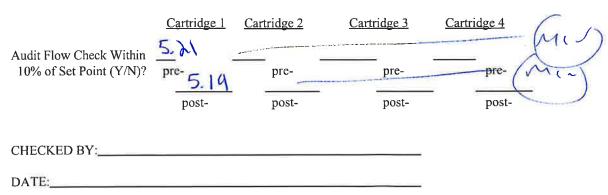


Figure 5. Compendium Method TO-10A field test data sheet.

Method TO-10A Pesticides/PCBs

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

T	GENER	ΛT	INIEOD.	MATION	
-	UTENER	AL.	INFUR	WALIUN	

SITE: NCS LOCATION INSTRUME	NCSU PH U, paleigh 11 : 524 NT MODEL NO.: 15 AL NO.: 2011320	TIME OPER CALIBRA	SAMPLED: 44 E PERIOD SAM RATOR: Dada ATED BY: Dada I:YES	PLED: 74 hv U Neyw UU Nager	
ADSORBEN	VT CARTRIDGE INFO	ORMATION: Cartridge 2	Cartridge 3	Cartridge 4	
Type: Adsorbent: Serial No.:	Tibe, RX Polymetrane 07/1007				
Sample No.:	A-U8-526-04	7404			my

II. SAMPLING DATA

		Ambient	Flow Rate (Q), mL/min	Samplin	g Period	Total	Total Sample
Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L
526	69.6	30.03	5.0	2/4	0813	2020	720	375
П	Ts.	.19	4	п	0707	1911	770	375
							-	
	Location 526	Location Temp., °F 526 69.6	Sampling Ambient Pressure, in Hg 520 GA.6 30.03	Sampling Ambient Pressure, in Location Temp., °F Hg Cartridge 1	Sampling Ambient Pressure, in Location Temp., °F Hg Cartridge 1 Cartridge 2	Sampling Ambient Pressure, in Location Temp., °F Hg Cartridge 1 Cartridge 2 Start 526 69.6 30.03 5.0 N/4 0873	Sampling Ambient Pressure, in Location Temp., °F Hg Cartridge 1 Cartridge 2 Start Stop 526 54.6 30.03 5.0 N/4 08/3 2020	Sampling Ambient Pressure, in Location Temp., °F Hg Cartridge 1 Cartridge 2 Start Stop Time, min. 526 54.6 30.03 5.0 N/4 08/3 2020 720

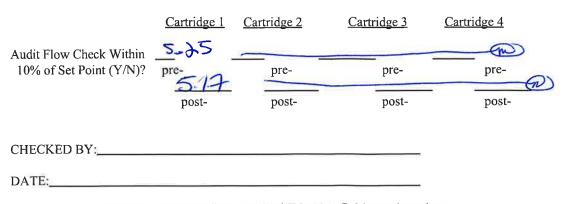


Figure 5. Compendium Method TO-10A field test data sheet.

Pesticides/PCBs Method TO-10A

COMPENDIUM METHOD TO-10A

		F			A SHEET				
I. GENER	AL INFO	RMATION	N						
SITE:_ LOCA INSTR PUMP	ECT:_N(S) N(SV, QC) TION: UMENT I SERIAL I RBENT C	MODEL NO.: GIO	10:: <u>58</u> -0901-01 40:330	CALL CALL	E(S) SAM IME PER DPERATO IBRATED RAIN:	IOD SAM R: <u>Dani</u> BY: <u>Dan</u>	IPLED:_ U Mayer U Kuy	zynr	<u> </u>
Type Adsorbent Serial No. Sample No. II. SAMPI	: : = (: - :		V _	Cartridge	2 Ca	rtridge 3	Cartrid	ge 4	- - D
Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Q), mL/min Cartridge 2	Samplin Start	ng Period Stop	Total Sampling Time, min.	Total Sample Volume, L
OZIVET	6085	67,9	30.04	50	NA	0740	1946	720	369
1/	и	н	at	ν	ü	0657	1900	120	369

Cartridge Identifi-	Sampling	Ambient	Ambient Pressure, in		(Q), mL/min		ng Period	Total Sampling	Total Sample Volume,
cation	Location	Temp., °F	Hg	Cartridge 1	Cartridge 2	Start	Stop	Time, min.	L
021667	6085	67,9	30.04	50	NA	0740	1946	720	369
	μ	ы	at	ν	u	0657	1900	120	369

	Cartridge 1	<u>Cartridge 2</u>	Cartridge 3	Cartridge 4
Audit Flow Check Within 10% of Set Point (Y/N)?	5.18 pre-5.09	pre-	pre-	pre-
	post-	post-	post-	post-
CHECKED BY:				
DATE:				

Figure 5. Compendium Method TO-10A field test data sheet.

I. GENER	AL INFOI	RMATION	1						
SITE:_ LOCA' INSTR PUMP	ΓΙΟΝ: UMENT I SERIAL I	MODEL NO.: 20	10.:_4(180836 GE INFOR	T C O CALI	IME PER PERATO BRATED AIN:	IOD SAM R: <u>Omlle</u> BY: <u>Dan</u>	PLED:_ NUJEN W Nu	4/25/2 24 hs	<u> </u>
Type: Adsorbent: Serial No.: Sample No.:	a a	Cartridge Tube II Diyyrck 69111	X	Cartridge	2 Ca	rtridge 3	Cartrid	ge 4	- - - <u>}</u>
II. SAMPL	ING DAT	ΣA.							
Cartridge Identifi- cation	Sampling Location	Ambient Temp., °F	Ambient Pressure, in Hg	Flow Rate (Cartridge 2	Start	Stop	Total Sampling Time, min.	Total Sample Volume, L
Odllole F	632	V	"	5,0 1/m/c	NA	0750	1906	720	3674
	AUDIT low Check f Set Point	Within 📩	Cartridge 1 5.13 40 1016-6.69			Cartridge		artridge 4	d D
			post-	po	st-	po	st-	post-	
СНЕСК	ED BY:_								
DATE:									
	F	igure 5. C	ompendiu	m Method	TO-10A	field test o	lata sheet.		

I. GENERAL INFORMATION

PROJECT: NCSUPH	DATE(S) SAMPLED: 04/ 24-25/24
SITE: NUSU, Rateryh, NU	TIME PERIOD SAMPLED: 2 hours
LOCATION: 7143	OPERATOR: Maru Webb
INSTRUMENT MODEL NO.:	CALIBRATED BY: Marc Webb
PUMP SERIAL NO .: 2014113010	A RAIN:YESNO

ADSORBENT CARTRIDGE INFORMATION:

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4	
Type: Adsorbent:	Tube PUP Poyurethme			2 (
Serial No.:	02/667				
Sample No.:	A-04-7148-0424	7-1			v.
K				/	

II. SAMPLING DATA

Cartridge			Ambient	Flow Rate (LPM (Q), mL/min	Samplin	g Period	Total	Total Sample
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L
02167	7145	67.5	30,04	5.0	NA	0700	1906	720	3708
<u></u>	.ક.પ <u>.</u>	£ 000	~ L	~	4 8	0647	1852	720	7708
,									
						-			

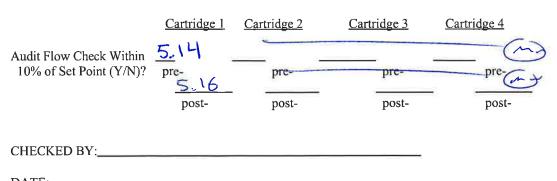


Figure 5. Compendium Method TO-10A field test data sheet.

	FIELD 7	FEST DATA SHE	EET (FTDS)		
I. GENERAL IN	FORMATION				
LOCATION:	Raleign, AC	TIME FOR CALIBRATE	AMPLED: 4 PERIOD SAMI ATOR: Davi TED BY: Davi YES X	PLED: OTI S elle Muyer	@ 24 nvs
ADSORBEN	T CARTRIDGE INFO	ORMATION:			
Type: Adsorbent: Serial No.: Sample No.:	Cartridge 1 Tuby Def Digure hane O'Main 7 A-03-142-047	Cartridge 2	Cartridge 3	Cartridge 4	
Cartridge	Ambien	t Flow Rate (Q), The		y Period Tot	

Cartridge			Ambient	Flow Rate (Q), whimin	Samplir	ng Period	Total	Total Sample
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L
CHUIG	742	70.2	30.04	5.0	NIA	0713	1910	420	1428
1/	Įc .	и	tr	nt.	21	0052	1857	720	3751
)								

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within 10% of Set Point (Y/N)?	5.2L	pre-	pre-	pre-
10% of Set Point (1/11):	5, 20 post-	post-	post-	post-
CHECKED BY:			_	
DATE:				

Figure 5. Compendium Method TO-10A field test data sheet.

T	GENER	ΔT	MF	$\bigcap RN$	ſΑ	TIC	N
1.	OLIVER	$\Delta \mathbf{L}$	TT AT.,		$1 \square$	111	ノエマ

LOCATION:	Paleigh, NC	TIME OPER	SAMPLED: 4 E PERIOD SAM RATOR: Dan ATED BY: Dan	PLED: OHTE	24hr
PUMP SERI	AL NO.: AUTH	CASC RAIN	YES	C NO	
ADSORBEN	IT CARTRIDGE INFO	ORMATION:			
	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4	
Type:	Tipe Out	_		N: :	
Adsorbent:	On we mare				
Serial No.:	1 021667				
	WATER TOTAL				
Sample No.:	DVP-03-7420	47474	• : : · · · · · · · · · · · · · · · · ·		ク

II. SAMPLING DATA

Cartridge			Ambient	Flow Rate (Q), mL/min	Samplin	g Period	Total	Total Sample
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L
0 21Wit	142	70.2	30.04	5.0	NIA	0712	1916	720	3694
11	1/	ц	И	15	(1	OUSZ	1857	720	7696

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within	5.16			هر
10% of Set Point (Y/N)?	pre-	pre-	pre-	pre-
	post-	post-	post-	post-
CHECKED BY:				
DATE:				

Figure 5. Compendium Method TO-10A field test data sheet.

т	CENIED	ΑТ	INFORM	ATION	
l	UENEK	AL	INFURIM	AHUN	

SITE: N (S LOCATION INSTRUME	NCSU DM U, Raleigh, NC I: ROOF ENT MODEL NO.: 30 IAL NO.: 30180830	TIME OPER CALIBRA	SAMPLED: 4 E PERIOD SAM RATOR: Dan ATED BY: Dan I: 4 YES	PLED: 0725	
ADSORBE	NT CARTRIDGE INFO				
	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4	
Type:	Def Tube) (V 3	
Adsorbent:	Polyu-Mane			8 8 	
Serial No.:	03104 F		_	5. :	
Sample No.:	A-14-ROOF-042	424			

II. SAMPLING DATA

Cartridge			Ambient	Flow Rate (Q) , mL/mi n	Samplin	g Period	Total	Total Sample
Identifi- cation	Sampling Location	Ambient Temp., °F	Pressure, in Hg	Cartridge 1	Cartridge 2	Start	Stop	Sampling Time, min.	Volume, L
021667	ROOF	6010	30.04	5:0	NIA	0725	2052		378
11	-ii	()	61	н	Д	6642	1842	720	378
A. I									

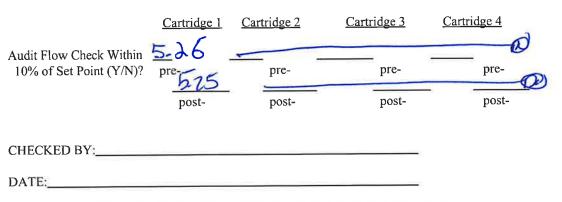


Figure 5. Compendium Method TO-10A field test data sheet.

Appendix F1 Summary of Other Relevant Data



Summary of Other Relevant Data

Other relevant datasets are included in this report as follows:

- Surficial wipe samples collected by NCSU in November 2023
- Bulk samples collected by NCSU in April 2018, and October and November 2023
- NCSU historical records on removal of a transformer (1991 and 2012) and on electrical light ballast replacements (2010)

Surficial wipe and bulk sample data collected by NCSU were analyzed for the nine common PCB Aroclors by USEPA method SW846 3546/8082A. NCSU also collected two air samples which were analyzed for eight of the common PCB Aroclors. Results are shown in **Tables F1-3** in **Appendices F2-4**. Bulk samples included window caulk (1 sample) from room 602M and caulk from a joint in exterior façade panels were collected and sent to EMSL for analysis. The window caulk had reported Aroclor-1254 concentrations of 6,000 ppm and Aroclor-1268 concentrations of 17,000 ppm. The exterior panel caulk had reported Aroclor-1254 concentrations of 2,700 ppm and Aroclor-1268 concentrations of 12,000 ppm.

On October 11, 2023, NCSU collected one bulk sample of insulation facing and on October 30, 2023, collected ten bulk samples consisting of insulation facing, insulation sealant, insulation fibers, and dust from inside an air duct were collected for laboratory (EMSL) analysis. A window surface sample was collected but was not able to be analyzed. Insulation facing was collected from two offices (520E and 526) AHU room P1003, and from AHU room 100. Concentrations of Arolcor-1262 ranged from 52–1,900 ppm with an average of 754 ppm. Insulation sealant was collected from office 520E and AHU room 100 with Aroclor-1262 concentrations of 810 ppm and 89 ppm, respectively. Insulation fibers were collected from office 520E with Aroclor-1262 concentrations of 810 ppm. Air duct dust was collected from office 310P and reported as bulk material with an Aroclor-1262 concentration of 170 ppm.

An additional six bulk samples were collected on November 7, 2023, and sent to Teklab, Inc. for analysis consisting of insulation facing, insulation fibers, and air duct dust. Insulation facing was collected from offices 417 and 520E with reported Aroclor-1262 concentrations of 592 ppm and 423 ppm, respectively. Insulation fibers were also collected from offices 417 and 520E with reported Arolcor-1262 concentrations of 9.82 ppm and 8.45 ppm, respectively. Dust from inside of a duct dust was collected from offices 310P and 730 and reported as bulk material with Aroclor-1262 concentrations of 194 ppm and 46.3 ppm, respectively.

On November 7, 2023, NCSU collected ten surficial wipe samples from seven offices and two laboratories. Concentrations of Aroclor-1262 were detected in six offices (310P, 310Q, 417A, 417B, 730, and 732C). The concentrations ranged from 1.1–12 micrograms per 100 square centimeters ($\mu g/100 \text{ cm}^2$) with an average of 4.6 $\mu g/100 \text{ cm}^2$. Aroclor-1254 was reported at a concentration of 2.3 $\mu g/100 \text{ cm}^2$ in office 730.

On November 9, 2023, NCSU collected indoor air samples from rooms 310P and 520E. The laboratory could not report Arolcor-1262 and the remaining 8 PCB Aroclors were not detected. In July 2012, the transformer serving Poe Hall failed. In June 1991, this preexisting transformer had been retro-filled with oil, and on September 30, 1991, its PCB-oil content tested at 18 ppm. Following the transformer failure in 2012, a new transformer was installed that was manufactured in 2008. The date of manufacture indicates it is a non-PCB transformer.

As set forth in the Building Energy Performance Contract received by the State Construction Office March 23, 2012, all lights in Poe Hall had been replaced or retrofitted by December 1, 2010. Pursuant to its Management of Building Demolition Debris policy, (i) NC State considers a light ballast to be a PCB ballast if the label says it is or if the label does not say at all; (ii) NC State only considers light ballasts to be Non-PCB Ballasts if "No-PCBs" is written on the ballasts; and (iii) PCB Ballasts are to be placed in 55-gallon drums for disposal and shipped on a Hazardous Waste Manifest.

Appendix F2

Table F1 – Analytical Results for Various Materials Collected by NCSU, 2018 and 2023

Table F1. Analytical Results for Various Materials Collected by NCSU, 2018 and 2023 **Indoor Environmental Investigation Report - Second Phase** Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample Date	Building Location	Room	Type of Material Sampled	Aroclor-1262 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1268 (mg/kg)	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1260 & Aroclor-1248 (mg/kg)	TSCA "PCB Bulk Product Waste" criterion (mg/kg)	Comments
				ī		Bulk	Samples - EMSL	Lab			
6	4	4/2/2018	Perimeter	602M	Window Caulk	ND	6,000	17,000	ND	50	
	4	4/2/2018	Perimeter	602M	Exterior Panel Caulk	ND	2,700	12,000	ND	50	
	3	10/11/2023	Perimeter	520E	Insulation Facing	790	ND	ND	ND	50	
	3	10/30/2023	Perimeter	520E	Insulation Facing	940	ND	ND	ND	50	
5	3	10/30/2023	Perimeter	520E	Insulation Sealant	810	ND	ND	ND	50	
	3	10/30/2023	Perimeter	520E	Insulation Fibers	160	ND	ND	ND	50	
	3	10/30/2023	Interior	526	Insulation Facing	1,900	ND	ND	ND	50	
3	4	10/30/2023	Perimeter	310P	Air Duct Dust	170	ND	ND	ND	50	Dust analysis reported as bulk
	4	10/30/2023	Perimeter	310P	Window Surface		La	b could not analyz	ze	50	
	5	10/30/2023	Penthouse	P1003	Insulation Facing	52	ND	ND	ND	50	
Roof	5	10/30/2023	Penthouse	P1003	Insulation Sealant	89	ND	ND	ND	50	
	6	10/30/2023	Penthouse	P1003	Insulation Facing	750	ND	ND	ND	50	
1	1	10/30/2023	Perimeter	100	Insulation Facing	89	25	ND	ND	50	
						Bulk	Samples - Teklab	Lab			
3	4	11/7/2023	Perimeter	310P	Air Duct Dust	194	ND	ND	ND	50	Dust analysis reported as bulk
4	3	11/7/2023	Perimeter	417	Insulation Facing	592	ND	ND	ND	50	
4	3	11/7/2023	Perimeter	417	Insulation Fibers	9.82	ND	ND	ND	50	
5	3	11/7/2023	Perimeter	520E	Insulation Facing	423	ND	ND	ND	50	
5	3	11/7/2023	Perimeter	520E	Insulation Fibers	8.45	ND	ND	ND	50	
7	4	11/7/2023	Perimeter	730	Air Duct Dust	46.3	ND	ND	ND	50	Dust analysis reported as bulk

 $^1 https://geosyntec.sharepoint.com/:b:/r/sites/NCSU-PoeHall/Shared\%20Documents/General/Client\%20Provided\%20Files/Sample\%20Data/Repeat\%20Bulk%20Samples%20Teklabs.pdf?csf=1\&web=1\&e=ab3agCamples%20Teklabs.pdf?csf=1\&e=ab3agCamples%20Teklabs.pdf?csf=1\&e=ab3agCamples%20Teklabs.pdf?csf=$ Notes:

TCSA - Toxic Substances Control Act

Values in bold exceed TCSA criterion for bulk PCBs

HVAC - Heating, Ventilation, and Air Conditioning

PCB - Polychlorinated Biphenyls

mg/kg - Miliigrams of PCBs per kilogram of material

ND - No Detection

HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

Appendix F3

Table F2 – Analytical Results for Surface Wipe Samples Collected by NCSU, 2023

Table F2. NCSU Collected Analytical Results for Surface Wipe Samples Collected by NCSU, 2023 Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

Floor	HVAC Circulation Zone	Sample Date	Room #	Room Type	Surface Wiped	Aroclor-1262 (mg/100 cm ²)	Aroclor-1254 (μg/100 cm ²)	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1248, Aroclor-1254, & Aroclor-1268 (μg/ 100 cm²)	USEPA PCB threshold for non- porous surfaces in high occupancy areas (μg/ 100 cm²)
	4	11/7/2023	310P	Office	Window Sill	1.3	< RL	< RL	10
3	4	11/7/2023	310P	Office	Wall	1.3	< RL	< RL	10
	4	11/7/2023	310Q	Office	Window Sill	1.1	< RL	< RL	10
4	3	11/7/2023	417A	Laboratory	Window Sill	8.5	< RL	< RL	10
7	3	11/7/2023	417B	Laboratory	Window Sill	6.2	< RL	< RL	10
	3	11/7/2023	519E	Office	Window Sill	ND	< RL	< RL	10
5	3	11/7/2023	528	Office	Window Sill	ND	< RL	< RL	10
	3	11/7/2023	520E	Office	Window Sill	ND	< RL	< RL	10
7	4	11/7/2023	730	Office	Window Sill	12	2.3	< RL	10
,	4	11/7/2023	732C	Office	Window Sill	1.8	< RL	< RL	10

https://geosyntec.sharepoint.com/:b:/r/sites/NCSU-PoeHall/Shared%20Documents/General/Client%20Provided%20Files/Sample%20Data/Repeat%20Bulk%20Samples%20Teklabs.pdf?csf=1&web=1&e=ab3agC

Values in bold exceed USEPA PCB threshold

HVAC - Heating, Ventilation, and Air Conditioning

PCB - Polychlorinated Biphenyls

mg/kg - Miliigrams of PCBs per kilogram of material

The method reporting limit (RL) is $0.50 \mu g/m^3$

< RL: analyte was not detected at or above the reporting limit

HVAC Zone 1 = AHU 1, HVAC Zone 2 = AHU 2, HVAC Zone 3 = AHU 3 & AHU 4, HVAC Zone 4 = AHU 5 +6.

Appendix F4

Table F3 – Analytical Results for Indoor Air Samples Collected by NCSU, 2023

Table F3. Analytical Results for Indoor Air Samples Collected by NCSU, 2023 Indoor Environmental Investigation Report – Second Phase Poe Hall, NCSU - Raleigh, NC

		HVAC			Type of Material	Aroclor-1262	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242,	US EP.	-		vels for oor Air		ting PC	Bs in
F	Floor	Circulation Zone	Sample Date	Room	Sampled	(μg/m3)	Aroclor-1260, Aroclor-1254, Aroclor-1268, & Aroclor-1248 (µg/m3)	Age: 1 - <2 yr	Age: 2 - <3 yr	Age: 3 - <6 yr	Age: 6 - <12 yr	Age: 12 - <15 yr	Age: 15 - <19 yr	
	3	3	11/9/2023	310P	Indoor Air	Not Tested	< RL	0.1	0.1	0.2	0.3	0.5	0.6	0.5
	5	3	11/9/2023	520E	Indoor Air	Not Tested	< RL	0.1	0.1	0.2	0.3	0.5	0.6	0.5

¹ https://www.epa.gov/pcbs/exposure-levels-evaluating-polychlorinated-biphenyls-pcbs-indoor-school-air

HVAC - Heating, Ventilation, and Air Conditioning

US EPA: United States Environmental Protection Agency

PCB - Polychlorinated Biphenyls

μg/m³- micrograms per cubic meter

The method reporting limit (RL) is $0.50 \mu g/m^3$

< RL: analyte was not detected at or above the reporting limit

HVAC Zone 3 = AHU 3 & AHU 4

² The reporting limit (RL) is greater than US EPA Exposure levels for all age groups besides age: 15-<19.

Appendix G Memorandum on PCB Toxicological and Epidemiological Literature





Geosyntec Consultants of NC, P.C.

Memorandum

Date: February 26, 2024

To: North Carolina State University

From: Chris Saranko, Ph.D., DABT, Geosyntec Consultants of NC, P.C.

Subject: National PCB Environmental Occurrence and Health Effects Overview

Introduction

This memorandum summarizes information about poly-chlorinated biphenyl (PCB) use, presence in the built and natural environments, pathways to human exposure, and adverse health effects that have been reported to be associated with exposures to PCBs in scientific literature. This information comes primarily from publicly available reports prepared by regulatory or public health agencies including the United States Environmental Protection Agency (EPA), the Agency for Toxic Substances and Disease Registry (ATSDR), and the National Toxicology Program (NTP). These documents include:

- PCBs in Building Materials—Questions & Answers (USEPA, 2015)
- Polychlorinated Biphenyls ToxFAQs (ATSDR, 2014)
- Report on Carcinogens, 15th Edition PCBs Substance Profile (NTP, 2015)

What are PCBs?

PCBs are a class of synthetic chemicals that were manufactured in the U.S. from the late 1920s to 1977 and used in a wide range of commercial and industrial applications. There are 209 different PCB compounds, called congeners, each of which contains from 1 to 10 chlorine atoms. Most of the PCBs manufactured in the United States were marketed as complex mixtures of congeners under the trade name Aroclor. Aroclors are generally identified by a four-digit numbering code in which the first two digits indicate the type of mixture and the last two digits indicate the approximate percentage of chlorine by weight in the mixture (for example, Aroclor-1262 is 62% chlorine by weight). PCB congeners with higher molecular weights, such as those comprising Aroclor-1260, Aroclor-1262 and Aroclor-1268, have very low volatility and therefore, are not

National PCB Environmental Occurrence and Health Effects Overview February 26, 2024 Page 2

expected to be present in air as a gas. Their presence in an air sample would most likely be tied to dust particles. PCBs were predominantly used as coolants and lubricants in electrical equipment such as capacitators and transformers due to their non-flammability, chemical stability, high boiling point, and electrical insulation properties. PCB manufacturing was discontinued in the U.S. in 1977 because of concerns about environmental persistence and potential carcinogenicity (ATSDR, 2014), and they were banned in the U.S. in 1979.

During their period of production, PCBs entered the environment via accidental spills, leaks, fires, disposal of PCB-containing products, and manufacturing processes. PCBs are still entering the environment today through runoff from urban areas where residual PCB contamination is more prevalent, as well as improper land disposal of PCB-containing products. PCBs do not readily break down in the environment and can accumulate in aquatic and terrestrial food chains.

How Were PCBs Used in Building Materials?

Common materials that contained PCBs used in schools and other buildings built or renovated between about 1950 and 1979 include caulking, paints, mastics and other adhesives, fireproofing materials, and in the manufacture of some ceiling tiles and acoustic boards, and a variety of other products. PCBs may also be present in fluorescent light ballasts manufactured before 1979 (EPA, 2014).

How Do People Get Exposed to PCBs?

PCBs are persistent in the environment and can migrate between soil, water, and air (ATSDR, 2000). Once in the environment, PCBs can accumulate in aquatic and terrestrial food chains. Fish and marine mammals, particularly top predators, can accumulate PCBs at concentrations thousands of times greater than environmental concentrations. The ability of PCBs to accumulate in the food chain makes dietary sources a predominant route of exposure to humans. Common food items such as fish, meat and dairy products are the main dietary sources of PCBs, while drinking water is generally not considered to be a significant pathway for exposure. Some dietary supplements containing fish oils have also been identified as containing PCBs (ATSDR, 2000).

Dietary intake and inhalation are generally considered to be the most significant pathways of exposure to PCBs in the general population, although PCB concentrations in food have decreased over time. In a study published in 2021, EPA scientists estimated population-level exposures to PCBs via indoor and outdoor air, indoor dust, soil, and total dietary intake. The results suggested that dietary intake contributed 88% of total PCB exposures, while indoor inhalation contributed 11% of total PCB exposures (Weitekamp et al. 2021).

National PCB Environmental Occurrence and Health Effects Overview February 26, 2024 Page 3

Together, these sources of PCBs generally result in background exposures that are measurable but below the EPA's "reference dose" – or the amount of PCB exposure that EPA does not believe will cause harm (EPA, 2015). Indoor and outdoor air typically contain small amounts of PCBs. Most of the dietary intake comes from consumption of fish/seafood, meat, and dairy products. Some population groups or individuals with high fish/seafood consumption may experience higher dietary intake of PCBs than the general public. The U.S. Food and Drug Administration (FDA) recognizes PCBs as an unavoidable, widespread, environmental contaminant and has set temporary food tolerances for PCBs ranging from 0.2 to 3.0 ppm and a tolerance of 10 ppm in paper packaging in direct contact with food. 21 C.F.R. § 109.30(a).

PCB Health Effects

The health effects of exposure to PCBs have been studied in epidemiological and animal studies. Some studies of workers indicate that exposure to high concentrations of PCBs were associated with certain kinds of cancer in humans. The strength of evidence for such associations is stronger for melanoma and cancers of the liver and biliary tract, and weaker for breast cancer and non-Hodgkins lymphoma (AIHA, 2013). Rats that were fed diets containing high levels of PCBs for two years developed liver cancer. The NTP and EPA have concluded that PCBs may be human carcinogens based on sufficient evidence of carcinogenicity in studies with experimental animals and limited evidence of carcinogenicity in humans (NTP, 2015).

With respect to non-cancer health effects, workers exposed to high concentrations of PCBs in occupational settings have been shown to lead to possible liver damage, dermal lesions, and respiratory problems, while low level environmental exposures still need further research (ATSDR, 2014). Animal studies have found PCBs to induce a wide range of adverse health outcomes including, body weight loss, immunosuppressive effects, neurotoxicity, and reproductive and developmental toxicity (ATSDR, 2014). A more detailed summary of the health effects from PCB exposures is provided in ATSDR's *Toxicological Profile for Polychlorinated Biphenyls (PCBs)*, which compiles human and animal studies and reviews the toxicological mechanisms of PCBs (ATSDR, 2000).

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2000. Toxicological profile for polychlorinated biphenyls (PCBs). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

American Industrial Hygiene Association (AIHA). 2013. PCBs in the Built Environment – White Paper.

National PCB Environmental Occurrence and Health Effects Overview February 26, 2024 Page 4

United States Environmental Protection Agency (EPA). 2015. PCBs in Building Materials-Questions & Answers. July.

Weitekamp CA, Phillips LJ, Carlson LM, DeLuca NM, Cohen Hubal EA, Lehmann GM. A state-of-the-science review of polychlorinated biphenyl exposures at background levels: relative contributions of exposure routes. Sci Total Environ. 2021 Jul 1;776:145912.

National Toxicology Program (NTP). 2015. Report on Carcinogens, Fifteenth Edition, Polychlorinated Biphenyls Substance Profile.

* * * * *