



Tony Gallotto



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Woodbridge/Carteret > Education

## Education

# Woodbridge Swiftly Responds to New Colonia HS Health Concerns

Worried Mother Took Her Own Samples, Says Toxic Chemicals Found





Colonia High School  
TAPinto File Photo

By TONY GALLOTTO

Published October 19, 2022 at 6:46 PM

WOODBRIIDGE, NJ — School officials say they are swiftly responding after the worried mother of two Colonia High School students gave them lab results that show cancer-causing chemicals from samples she took on her own at that school.

Parent Edyta Komorek – a veteran environmental scientist – collected dust, window caulk and soil samples from Colonia High School on separate occasions since August. She paid to have them independently tested at state-certified environmental labs in Mountainside and Fairfield.

Those results reportedly show unacceptable levels of polychlorinated biphenyls (PCBs) and for chlordane, heptachlor and heptachlor epoxide — compounds known to cause cancer and other ailments.

“For example, the PCB levels found in the window caulk are 1,000 times higher than federal environmental standards. The PCB level from the (surface) soil samples are 2,300 times higher than acceptable federal standards,” said Komorek, who already transferred her daughters to another Woodbridge high school.

“These results are not conclusive, but indicate that comprehensive air quality, soil and water tests should be done,” said Komorek, who gave her findings Monday to Superintendent Joseph Massimino, Colonia High principal Kenneth Pace, and Brian Geoffroy, union president for the Woodbridge Education Association.

“Each seemed sincerely concerned. At least, I hope so,” said Komorek.

“The health and safety of our students and staff is always our top priority. We take this latest information very seriously,” said Massimino, who sent a letter apprising parents and guardians of the new details.

Massimino's letter says the district sent Komorek's findings to its environmental consultant, Middletown-based T&M Associates, and to the township Department of Health. The township, in turn, forwarded the findings to both the state Departments of Health and Environmental Protection.

Mayor John McCormac confirmed that the town and school district will "collectively determine the best course of action."

"Whenever we get information like this, we are concerned. But, we must be guided by experts," said McCormac, confirming that state health and environmental will help evaluate Komorek's data.

Massimino's letter also said: "Nothing in the newly-reported information has any bearing on prior studies which determined last spring that no radiation was found inside or outside Colonia High School."

Commissioners from the state Departments of Health and Environmental Protection joined school officials earlier this year to announce that radiological tests at Colonia High School found "no evidence of any cancer causing hazards," saying there was no reason for more scientific tests.

Those radiological tests happened after Colonia High alumni Al Lupiano – also an experienced environmental scientist – identified 130 former students, staff and neighbors with cancerous and benign brain tumors, and other rare ailments he believes are linked to the school.

"This is my 'I told-you-so' moment," said Lupiano, a 1989 graduate. "I wanted state and federal agencies to do their job: Conduct thorough air, soil and water tests at this school. These alarming results should now make those tests very necessary."

Besides PCBs, Lupiano explained that chlordane, heptachlor and heptachlor epoxide are pesticide chemicals banned since the late-1980s. "Why (those chemicals) are now in soil samples at Colonia High is a mystery that must be investigated," he said.

The school district's decision for no further tests is why Komorek took action on her own.

"Like any parent, I want my daughters to be safe at school. I did not believe they were," she said.

Explaining that radiation is not the only potential environment cause for brain tumors or cancers, Komorek said "there were too many unanswered questions. Nobody wanted to investigate other possible causes."

Before taking her own samples, Komorek took other steps.

She did a “desktop review” of online public records, and peppered state and federal health and environmental agencies with inquiries and phone calls for more information.

She also pleaded for further testing, but made little headway and got few responses. “Nobody (from the state) appeared in charge of reviewing my information. Nobody was responsible to answer any of my questions,” she said.

Komorek, 45, is a senior project manager at the Green Brook office of a national environment consulting firm. She holds environmental science degrees from Rutgers University and the New Jersey Institute of Technology. Since 2006, she has specialized in identifying and remediating in air, soil and groundwater contaminants.

October 17, 2022

Mr. Kenneth Pace, Colonia High School Principal  
Dr. Joseph Massimino, Superintendent of Schools in Woodbridge Twp School District  
Mr. Brian Geoffroy, President of Woodbridge Township Education Association

**Re: Environmental Sampling and Analysis  
Colonia High School  
180 East Street  
Colonia, Middlesex County, NJ 07067**

This letter provides a summary of findings of limited environmental sampling conducted at Colonia High School located at 180 East Street in Colonia, Middlesex County, NJ. Samples of soil, exterior caulk and interior dust were collected by Mrs. Edyta Komorek, Environmental Scientist and mother of two students attending Colonia High School at that time.

**Dust (Wipe) Sampling, August 30, 2022**

On August 30, 2022, one dust sample was collected utilizing a wipe. The wipe was a clean cotton gauze pad provided by the laboratory and previously wetted in hexane. The sample was collected from the top of the stall in ladies' room located on the first floor opposite auditorium. An area of 100 cm<sup>2</sup> was wiped with laboratory-prepared hexane wipe, and placed in a pre-cleaned, laboratory-provided jar, with a screw-on lid. The sample was identified as S-1, placed on ice and delivered to a NJ-certified laboratory, Chem-Tech of Mountainside, NJ (NJ Laboratory Certification # 20012), the next day. Wipe sample S-1 was submitted for Polychlorinated Biphenyls (PCBs) analysis via EPA Method SW8082A

Result of the analysis indicate PCBs at concentration of 4.3 ug/wipe (or 100 cm<sup>2</sup>), indicating that PCBs may be present in indoor air.

**Caulk Sampling, September 18, 2022**

On September 18, 2022, one caulk sample was collected from the northern exterior wall of the Colonia High School building and placed in a pre-cleaned, laboratory-provided jar, with a screw-on lid. The caulk sample was identified as Caulk-1 and submitted to a NJ-certified laboratory, Aqua Protech Laboratories (APL) of Fairfield, NJ (NJ Laboratory Certification # 07010), the next day. Sample Caulk-1 was submitted for PCBs analysis via EPA Method SW 846 8082A.

Results of the analysis indicate PCBs at concentration of 50,500 mg/kg, exceeding the US EPA regulatory level of 50 mg/kg (or ppm).

**Soil Sampling, September 18, 2022**

On September 18, 2022, one soil sample was collected adjacent to the northern exterior wall of the Colonia High School building, below the caulk sample location. The sample was collected from

0-0.5 ft. below ground surface (bgs) depth interval and identified as S-1. It was placed in a pre-cleaned, laboratory-provided jar, with a screw-on lid. S-1 sample was submitted to a NJ-certified laboratory (APL) the next day for PCBs analysis via EPA Method SW 846 8082A.

Results of the analysis indicated PCBs concentration of 575 mg/kg in soil sample S-1, exceeding the New Jersey Soil Remediation Standard (SRS) for the Ingestion-Dermal Exposure Pathway-Residential and NJ SRS for the Ingestion-Dermal Exposure Pathway- Nonresidential, set at 0.25 mg/kg and 1.1 mg/kg, respectively.

### **Soil Sampling, September 28, 2022**

Due to reports of elevated chlordane concentrations detected by the laboratory during the PCBs analysis of sample S-1, additional soil sample was collected adjacent to the northern exterior wall of the Colonia High School building on September 30, 2022. The soil sample was identified P-1 and placed in a pre-cleaned, laboratory-provided jar, with a screw-on lid. Upon collection, soil sample P-1 was placed on ice and submitted to a NJ-certified laboratory, APL of Fairfield, NJ (NJ Laboratory Certification # 07010), the next day. Sample P-1 was submitted for Pesticides and Herbicides analyses via EPA Methods SW 846 8081B and SW 846 8151A, respectively.

Results of the analysis indicated the following:

- Herbicides were reported as non-detect in sample P-1.
- Chlordane (pesticide) was detected at concentration of 113 mg/kg, exceeding the NJ SRS for the Ingestion-Dermal Exposure Pathway-Residential, NJ SRS for the Ingestion-Dermal Exposure Pathway- Nonresidential, and NJ SRS for Migration to Groundwater set at 0.27 mg/kg, 1.4 mg/kg, and 1.4 mg/kg, respectively.
- Heptachlor (pesticide) was detected at concentration of 4.35 mg/kg, exceeding the NJ SRS for the Ingestion-Dermal Exposure Pathway-Residential, NJ SRS for the Ingestion-Dermal Exposure Pathway- Nonresidential, and NJ SRS for Migration to Groundwater set at 0.15 mg/kg, 0.81 mg/kg, and 0.083 mg/kg, respectively.
- Heptachlor epoxide (pesticide) was detected at concentration of 14.7 mg/kg, exceeding the NJ SRS for the Ingestion-Dermal Exposure Pathway-Residential, NJ SRS for the Ingestion-Dermal Exposure Pathway- Nonresidential, and NJ SRS for Migration to Groundwater set at 0.076 mg/kg, 0.4 mg/kg, and 0.081 mg/kg, respectively.

### **CONCLUSIONS AND RECOMMENDATIONS:**

PCBs, chlordane, heptachlor, and heptachlor epoxide are all carcinogenic compounds.

Based on the above analytical results, unauthorized use of PCBs (above 50 mg/kg) was identified in the building materials (caulk) at the Colonia High School. PCB concentrations found in soil and caulk exceed the Toxic Substances Control Act (TSCA) level of 50 ppm per Title 40 of the Code of Federal Regulations (CFR) in Part 761. In addition, a discharge of PCBs, chlordane, heptachlor, and heptachlor epoxide to the environment (surrounding soil) is evident based on their concentrations exceeding the NJ SRS.

A notification to USEPA and NJDEP is required. Further assessment of caulk and other building materials should be conducted for presence of PCBs. PCBs may be present in the following building materials: window, door and sink caulk, expansion joints, interior and exterior paint, window glazing, mortar, floor tile adhesive, crack sealants, and other materials adjacent to the above. In addition, due to presence of PCBs in the dust inside the school, indoor air sampling is required to determine if PCBs are present above regulatory standards.

Due to absence of NJ regulations/guidance regarding air sampling in schools, it is strongly recommended by PCB researchers and scholars that the *Indoor Air Testing for PCBs in Vermont Schools – Technical Guidance* be followed, as it sets air screening level of 22.5 ng/m<sup>3</sup>, which is protective of school-age children.

Pesticides and PCBs exceedances in soil, require additional site investigation and remedial investigation to determine vertical and horizontal extent of the impacts. Indoor air sampling and analysis for chlordane and heptachlor in the Colonia High School building shall also be conducted.

**The above further action shall be undertaken immediately, due to high exceedances of the State and Federal regulatory standards for PCBs and pesticides as well as the fact that PCBs and chlordane inhalation may be occurring by students and staff.**

It should be recognized that the environmental sampling conducted and described above was very limited. Other toxic elements and compounds, such as (but not limited to) heavy metals, polynuclear aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), could exist at the school's property due to presence of suspected fill material, potential illegal disposal of chemicals or contaminant migration from surrounding properties. A comprehensive investigation of soil, indoor air, and groundwater shall be conducted to determine if children and staff are exposed to unhealthy levels of toxins other than already identified PCBs and pesticides.

Sincerely,



Edyta Komorek

Enclosures: Table 1 thru 4  
Figure 1  
Photo Log  
Analytical Reports

Cc: Commissioner Shawn M. LaTourette, NJDEP  
Commissioner Judy Persichilli, NJDOH  
NJ Governor Phil Murphy

John McCormac, Mayor of Woodbridge Twp.  
Lisa F. Garcia, USEPA Region 2 Administrator  
Leah Graziano, Director of ATSDR  
Sean Spiller, NJEA President  
Senator Joseph Vitale  
Congressman Frank Pallone  
Senator Sam Thompson



Table 1  
 Dust (Wipe Sample) Analytical Results  
 August 2022  
 Colonia High School  
 180 East Street, Colonia, NJ 07067

<b>Sample ID:</b>		<b>S-1</b>
<b>Date Sampled:</b>		<b>08/30/2022</b>
<b>Matrix:</b>		<b>Dust/Wipe</b>
<b>Sample Depth:</b>		<b>n/a</b>
<b>Units:</b>		<b>µg/wipe</b>
<b>CAS#</b>	<b>Compound</b>	
<b>Polychlorinated Biphenyls (PCBs)</b>		
12674-11-2	Aroclor-1016	ND (0.092)
11104-28-2	Aroclor-1221	ND (0.14)
11141-16-5	Aroclor-1232	ND (0.12)
53469-21-9	Aroclor-1242	ND (0.073)
12672-29-6	Aroclor-1248	ND (0.089)
11097-69-1	Aroclor-1254	<b>4.3</b>
11096-82-5	Aroclor-1260	ND (0.097)
37324-23-5	Aroclor-1262	ND (0.1)
11100-14-4	Aroclor-1268	ND (0.17)
1336-36-3	Total PCBs	<b>4.3</b>

**Key:**

ND - not detected

(0.092) - value in parenthesis indicates reporting limit

 Indicates detection

Table 2  
 PCB Soil Analytical Results  
 September 2022  
 Colonia High School  
 180 East Street, Colonia, NJ 07067

Sample ID: Date Sampled: Matrix: Sample Depth: Units:	S-1 09/18/2022 Soil 0-0.5 ft. mg/kg	NJDEP 2021 Soil Remediation Standards (SRS)				
		NJDEP Residential Ingestion-Dermal SRS May 2021 mg/kg	NJDEP Residential Inhalation SRS May 2021 mg/kg	NJDEP Non-Residential Ingestion-Dermal SRS May 2021 mg/kg	NJDEP Non-Residential Inhalation SRS May 2021 mg/kg	NJDEP Migration to Ground Water SRS May 2021 mg/kg
<b>Polychlorinated Biphenyls (PCBs)</b>						
12674-11-2 Aroclor-1016	ND (21.7)	0.25	NA	1.1	NA	1.6
11104-28-2 Aroclor-1221	ND (21.7)	0.25	NA	1.1	NA	1.6
11141-16-5 Aroclor-1232	ND (21.7)	0.25	NA	1.1	NA	1.6
53469-21-9 Aroclor-1242	ND (21.7)	0.25	NA	1.1	NA	1.6
12672-29-6 Aroclor-1248	ND (21.7)	0.25	NA	1.1	NA	1.6
11097-69-1 Aroclor-1254	<b>575 (D)</b>	0.25	NA	1.1	NA	1.6
11096-82-5 Aroclor-1260	ND (21.7)	0.25	NA	1.1	NA	1.6
37324-23-5 Aroclor-1262	ND (21.7)	0.25	NA	1.1	NA	1.6
11100-14-4 Aroclor-1268	ND (21.7)	0.25	NA	1.1	NA	1.6
1336-36-3 Total PCBs	<b>575</b>	0.25	NA	1.1	NA	1.6

**Key:**

D - Indicates result is based on a dilution

ND - compound was not detected

(21.7) value in parenthesis indicates Reporting Limit (RL)

Reporting Limit exceeds regulatory standard

Value exceeds one or more of NJ SRS

Table 3  
 Caulk Analytical Results  
 September 2022  
 Colonia High School  
 180 East Street, Colonia, NJ 07067

Sample ID: Date Sampled: Matrix: Sample Depth: Units:	Caulk-1 09/18/2022 Solid N/A mg/kg	US EPA Cleanup Standard  mg/kg
<b>Polychlorinated Biphenyls (mg/kg)</b>		
12674-11-2 Aroclor-1016	ND (1340)	50
11104-28-2 Aroclor-1221	ND (1340)	50
11141-16-5 Aroclor-1232	ND (1340)	50
53469-21-9 Aroclor-1242	ND (1340)	50
12672-29-6 Aroclor-1248	ND (1340)	50
11097-69-1 Aroclor-1254	<b>50500 (D)</b>	50
11096-82-5 Aroclor-1260	ND (1340)	50
37324-23-5 Aroclor-1262	ND (1340)	50
11100-14-4 Aroclor-1268	ND (1340)	50
1336-36-3 Total PCBs	<b>50500</b>	50

**Key:**

U - Indicates compound analyzed for but not detected

D - Indicates result is based on a dilution

ND - compound was not detected

(1340) value in parenthesis indicates Reporting Limit (RL)

Reporting Limit exceeds Reg Standard

Value Exceeded One or More of NJ SRS

Table 4  
Pesticide and Herbicides Soil Analytical Results  
September 2022  
Colonia High School  
180 East Street, Colonia, NJ 07067

Sample ID: Date Sampled: Matrix: Sample Depth: Units:	P-1 09/28/2022 Soil 0-0.5 ft. mg/kg	NJDEP 2021 Soil Remediation Standards (SRS)				
		NJDEP Residential Ingestion-Dermal SRS May 2021 mg/kg	NJDEP Residential Inhalation SRS May 2021 mg/kg	NJDEP Non-Residential Ingestion-Dermal SRS May 2021 mg/kg	NJDEP Non-Residential Inhalation SRS May 2021 mg/kg	NJDEP Migration to Ground Water SRS May 2021 mg/kg
<b>Herbicides (mg/kg)</b>	Result					
93-72-1 2,4,5-TP (Silvex)	ND (0.134)	NS	NS	NS	NS	NS
94-75-7 2,4-D	ND (0.134)	NS	NS	NS	NS	NS
<b>Pesticides (mg/kg)</b>	Result					
72-54-8 4,4'-DDD	ND (1.3)	2.3	NS	11	NS	0.47
72-55-9 4,4'-DDE	ND (1.3)	2	NS	11	NS	0.47
50-29-3 4,4'-DDT	ND (1.3)	1.9	NS	9.5	NS	0.67
309-00-2 Aldrin	ND (1.3)	0.041	NS	0.21	NS	0.13
319-84-6 alpha-BHC	ND (1.3)	0.086	NS	0.41	NS	0.0023
319-85-7 beta-BHC	ND (1.3)	0.3	NS	1.4	NS	0.0046
57-74-9 Chlordane	113 (D)	0.27	NS	1.4	NS	1.4
319-86-8 delta-BHC	ND (1.3)	NA	NS	NS	NS	NS
60-57-1 Dieldrin	ND (1.3)	0.034	NS	0.16	NS	0.024
959-98-8 Endosulfan I	ND (1.3)	470	NS	7800	NS	NA
33213-65-9 Endosulfan II	ND (1.3)	470	NS	7800	NS	NA
1031-07-8 Endosulfan sulfate	ND (1.3)	NS	NS	NS	NS	NS
115-29-7 Endosulfans, Total	ND (1.3)	470	NS	7800	NS	NA
72-20-8 Endrin	ND (1.3)	19	NS	270	NS	1.6
7421-93-4 Endrin aldehyde	ND (1.3)	NS	NS	NS	NS	NS
53494-70-5 Endrin ketone	ND (1.3)	NS	NS	NS	NS	NS
58-89-9 gamma-BHC (Lindane)	ND (1.3)	0.57	NS	2.8	NS	0.0035
76-44-8 Heptachlor	4.35 (D)	0.15	NS	0.81	NS	0.083
1024-57-3 Heptachlor Epoxide	14.7 (D)	0.076	NS	0.4	NS	0.081
72-43-5 Methoxychlor	ND (1.3)	320	NS	4600	NS	NA
8001-35-2 Toxaphene	ND (1.3)	0.49	NS	2.3	NS	6.2

Key:

D - Indicates result is based on a dilution

NS - No standard exists

ND - compound was not detected

(1340) value in parenthesis indicates Reporting Limit (RL)

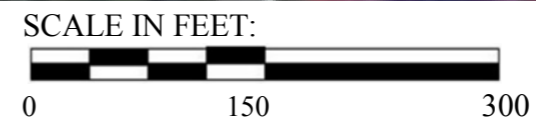
Reporting Limit exceeds regulatory standard

Value exceeds one or more of NJ SRS



- Dust (wipe) sample location (1st floor ladies' room opposite auditorium)
- Caulk sample location (northern exterior wall)
- Soil sample location (adjacent northern exterior wall)

Sample designation (sample depth in feet)	Compound and its concentration
S-1 (0-0.5 ft.)	Chlordane 113 mg/kg
	Heptachlor 4.35 mg/kg
	Heptachlor epoxide 14.7 mg/kg
	PCBs (Aroclor 1254) 575 mg/kg
	PCBs (Aroclor 1254) 50,500 mg/kg
	PCBs (Aroclor 1254) 4.3 ug/wipe



**Figure 1**  
**Sample Location Map**  
**Colonia High School**  
**180 East Street**  
**Colonia, Middlesex County, NJ 07067**  
 Date: 10/17/2022

Note 1: Only compounds exceeding the NJ or USEPA regulatory/advisory standards are listed above  
 Note 2: Wipe = 100 cm<sup>2</sup>

## Photo Log

Sample Locations, August-September 2022

Colonia High School

180 East Street, Colonia, NJ 07067



Photo 1: View of the caulk and soil sample locations at the northern exterior wall.



## Photo Log

Sample Locations, August-September 2022

Colonia High School

180 East Street, Colonia, NJ 07067



Photo 2: Close-up of the caulk present at the northern exterior wall.

## Photo Log

Sample Locations, August-September 2022

Colonia High School

180 East Street, Colonia, NJ 07067



Dust (wipe) sample location

Photo 3: Restroom stalls (PCB dust sample location). 1<sup>st</sup> Floor ladies' room, opposite auditorium.



## Photo Log

Sample Locations, August-September 2022

Colonia High School

180 East Street, Colonia, NJ 07067



Photo 4: View of the 1<sup>st</sup> floor ladies' room, opposite the auditorium.



AQUA PRO-TECH LABORATORIES  
Certified Environmental Testing



# ANALYTICAL RESULTS

## REDUCED DELIVERABLES FORMAT

APL Work Order Number: 2090813

Edyta Komorek

Project: Colonia High School

Brian Wood  
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Oct 06, 2022

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Certified Environmental Testing

# Sample Summary

Work Order: 2090813

Client: \_One Time Client

Project: Colonia High School

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	2090813-01	Soil	09/18/2022 13:50	09/19/2022 16:50
Caulk-1	2090813-02	Solid	09/18/2022 13:49	09/19/2022 16:50

APL

APL 2090813

AQUA PRO-TECH LABORATORIES



www.aquaprotechlabs.com  
FAX: 973-227-2813

Contamination Level

Low
<input checked="" type="checkbox"/> Medium
High

CHAIN OF CUSTODY

Send Report To: *Edyta Komarek*

Address: *[Redacted]*

Phone: *[Redacted]*

Send Invoice To: *Edyta Komarek*

Address: *[Redacted]*

Sampling Location: *Colonia High School*

Sampled By: *Ek.*

Cooler Temp: *40*

Comments/Special Instructions: *per Tom C. and A. Lisa R.*

Sample #	Field ID	Sample Source	Collect Date	Matrix Abbreviations:			Matrix	Grab Comp	No. of Bottles	Preservative
				DL - Drinking Water	L - Lake	S - Soil				
2090813										
01			9/18/02				S	X	1	none
02			9/18/02				Caustic	X	1	none

ANALYSIS REQUESTED

SRPP

Turn-Around Time

APL Standard 2 Weeks

Rush (Choose One Below)

1 Day  2 Days  3 Days

1 Week  Other (Specify Below)

Date and Time Required: \_\_\_\_\_

\*\*May Need Lab Approval

Report / Electronic Format

Results Only / NY ASP-A  Excel Summary

Reduced: NJ DEP  EQUIS

Full: NJ DEP / NY ASP-B  EnviroData

State Perms/E2 Reporting  HazMat EDD

RELINQUISHED BY: *Edyta Komarek* Date: *9/19/02* Time: *11:23*

RECEIVED BY: *[Signature]* Date: *9/19/02* Time: *16:50*

CERTIFICATIONS: NELAP (National Environmental Accreditation Program) NJDEP #07010 PADEP #66-02903 NYDOH #11634

By signing this Chain of Custody Agreement, customer expressly agrees to pay APL for all charges, reasonably incurred in connection with analysis and reporting for these samples.

## Extractable Petroleum Hydrocarbons:

### *Gas Chromatography/Flame Ionization Detector*

New Jersey Department of Environmental Protection Site Remediation Program Extractable Petroleum Hydrocarbons Methodology (Version 3.0).

USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8015B or NJDEP Office of Quality Assurance Quantitation of Semi-Volatile Petroleum Products in Water, Soil and Sediment OQA-QAM-025, Revision 6.

## Metals:

### *Inductively-Coupled Plasma Atomic Emission Spectrometry or Inductively-Coupled Plasma Mass Spectrometry*

**Wastewater and Groundwater Samples:** USEPA Methods for the Analysis of Water and Wastes, Method 200.7, Method 200.8.

**Soil Samples:** USEPA Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 6010D.

## Mercury:

### *Cold Vapor Atomic Absorption Spectrometry*

**Wastewater and Groundwater Samples:** USEPA Methods for the Analysis of Water and Wastes, Method 245.1.

**Soil Samples:** USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 7471B.

## Volatile Organic Compounds:

### *Purge and Trap Gas Chromatography/Mass Spectrometry*

**Drinking Water Samples:** USEPA Methods for the Determination of Organic Compounds in Drinking Water, Method 524.2.

**Wastewater Samples:** USEPA Methods for the Analysis of Water and Wastes, Method 624.1, Method 8260C.

**Soil and Groundwater Samples:** USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8260C.

## Semi-Volatile Organic Compounds:

### *Gas Chromatography/Mass Spectrometry*

**Wastewater Samples:** USEPA Methods for the Analysis of Water and Wastes, Method 625.1, Method 8270D.

**Soil and Groundwater Samples:** USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8270D.

## PFAS Compounds:

### *Liquid Chromatography/Tandem Mass Spectrometry*

**Drinking Water Samples:** USEPA Methods for the Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), Method 537.

## Pesticides:

### *Gas Chromatography/Electron Capture Detector*

**Wastewater Samples:** USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8081B.

**Soil and Groundwater Samples:** USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8081B.

## Polychlorinated Biphenyls (PCBs):

### *Gas Chromatography/Electron Capture Detector*

**Wastewater Samples:** USEPA Methods for the Analysis of Water and Wastes, Method 608.3, Method 8082A.

**Soil and Groundwater Samples:** USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8082A.

## General Chemistry Methods:

*Various general chemistry methods are taken from "Standard Methods for the Examination of Water and Wastewater, 19th Edition".*

Specific method citations can be found on the Analytical Results Summary page of this report listed under 'Method'.

\*\* A complete list of APL's certified Methods are accessible on the [Standards And Docs](#) page of the Results Retrieval System

Aqua Pro-Tech Laboratories  
Data Reporting Abbreviations and Qualifiers

**MDL:**

Method Detection Limit. The minimum reportable concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The value is calculated from the analysis of seven replicates of a spike sample. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

**RL:**

Reporting Limit. The Concentration of the lowest calibration standard that was included in the initial calibration of the instrument. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

**Concentration (Conc) / Result:**

If the compound is detected, the measured concentration is reported. If this column is left blank, or contains a 'less than' (<) symbol, the compound was not detected.

**Tentatively Identified Compound (TIC):**

A TIC is a non-targeted compound, not included in the calibration, identified by a mass spectral library search.

**Qualifiers:**

- U:** Indicates the compound was analyzed for but was not detected.
- J:** Indicates an estimated value. All tentatively identified compounds (TICs) and results below the RL receive this qualifier.
- B:** Indicates the analyte was found in the method blank as well as the sample.
- N:** Used when reporting a specific tentatively identified compound.
- E:** Indicates that the concentration of the compound exceeds the calibration range of the instrument. The results of a diluted analysis will also be reported. The results of the dilution should be used for those compounds exceeding the calibration range in the undiluted analysis.

**DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE  
SUMMARY QUESTIONNAIRE**

**Laboratory Name:** Aqua Pro-Tech Laboratories

**Client:** One Time Client

**Project Location:** Colonia High School

**Project Number:** 2090813

**Laboratory Sample ID(s):** 01-02

**Sampling Date(s):** September 18,2022

**List DKQP Methods Used:** SW 846 8082A;Gravimetric

<b>1</b>	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified handling, preservation, and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	<b>EPH Method:</b> Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>2</b>	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>3</b>	Were samples received at an appropriate temperature (4±2° C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5</b>	Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?  Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<b>6</b>	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for Data of Known Quality.





AQUA PRO-TECH LABORATORIES

Certified Environmental Testing

**QUALITY CONTROL**  
**Conformance/Non-Conformance Summary**

**ANALYSIS: PCBs [8082A]**

**COMMENTS:**

The surrogate (Tetrachloro-m-xylene) recovery for sample 2090813-02 was outside QC limits (high).  
The surrogate (Decachlorobiphenyl) recovery for samples 2090813-01 and 02 was outside QC limits (high).

Reviewed By: \_\_\_\_\_ (JM) \_\_\_\_\_ 9/30/2022  
Brian Wood - Laboratory Director Date

*For any questions about your Quality Control, please call us at 973-227-0422*



AQUA PRO-TECH LABORATORIES  
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## Positive Results Only Summary

### 2090813-01 (Soil)

Sample Name: **S-1**

#### SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1254 [2C]	575	D	2.03	21.7	mg/kg dry	500	9/23/22 13:45
Total PCBs	575	D	2.03	21.7	mg/kg dry	500	9/23/22 13:45

### 2090813-02 (Solid)

Sample Name: **Caulk-1**

#### SW 846 8082A - PCBs

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1254 [2C]	50500	D	125	1340	mg/kg dry	10000	9/25/22 11:21
Total PCBs	50500	D	125	1340	mg/kg dry	10000	9/25/22 11:21

**ND** - Indicates compound analyzed for but not detected  
**J** - Indicates estimated value  
**B** - Indicates compound found in associated blank  
**E** - Concentration exceeds highest calibration standard

**D** - Indicates result is based on a dilution  
**H** - Indicates a Hold Time violation  
**P** - Greater than 25% diff. between 2 GC columns.  
**MDL** - Minimum detection limit, **RL** - Reporting limit



# All Results Summary

**Client:** \_One Time Client  
**Project:** Colonia High School

**Work Order:** 2090813  
**Date to Lab:** 9/19/2022 4:50:00PM

**2090813-01 (Soil)** Sample Name: **S-1** Collected: **9/18/2022 1:50:00PM**

**SW 846 8082A - PCBs**

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	2.91	21.7	mg/kg	500	9/23/22 13:45
Aroclor-1221	ND	U	5.73	21.7	mg/kg	500	9/23/22 13:45
Aroclor-1232	ND	U	7.29	21.7	mg/kg	500	9/23/22 13:45
Aroclor-1242	ND	U	4.27	21.7	mg/kg	500	9/23/22 13:45
Aroclor-1248	ND	U	4.47	21.7	mg/kg	500	9/23/22 13:45
<b>Aroclor-1254 [2C]</b>	<b>575</b>	<b>D</b>	<b>2.03</b>	<b>21.7</b>	<b>mg/kg</b>	<b>500</b>	<b>9/23/22 13:45</b>
Aroclor-1260	ND	U	2.72	21.7	mg/kg	500	9/23/22 13:45
Aroclor-1262	ND	U	5.85	21.7	mg/kg	500	9/23/22 13:45
Aroclor-1268	ND	U	2.63	21.7	mg/kg	500	9/23/22 13:45
<b>Total PCBs</b>	<b>575</b>	<b>D</b>	<b>2.03</b>	<b>21.7</b>	<b>mg/kg</b>	<b>500</b>	<b>9/23/22 13:45</b>

**Gravimetric - General Chemistry**

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	75.9				%	1	9/20/22 11:03

**2090813-02 (Solid)** Sample Name: **Caulk-1** Collected: **9/18/2022 1:49:00PM**

**SW 846 8082A - PCBs**

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Aroclor-1016	ND	U	179	1340	mg/kg	10000	9/25/22 11:21
Aroclor-1221	ND	U	353	1340	mg/kg	10000	9/25/22 11:21
Aroclor-1232	ND	U	449	1340	mg/kg	10000	9/25/22 11:21
Aroclor-1242	ND	U	263	1340	mg/kg	10000	9/25/22 11:21
Aroclor-1248	ND	U	275	1340	mg/kg	10000	9/25/22 11:21
<b>Aroclor-1254 [2C]</b>	<b>50500</b>	<b>D</b>	<b>125</b>	<b>1340</b>	<b>mg/kg</b>	<b>10000</b>	<b>9/25/22 11:21</b>
Aroclor-1260	ND	U	168	1340	mg/kg	10000	9/25/22 11:21
Aroclor-1262	ND	U	360	1340	mg/kg	10000	9/25/22 11:21
Aroclor-1268	ND	U	162	1340	mg/kg	10000	9/25/22 11:21
<b>Total PCBs</b>	<b>50500</b>	<b>D</b>	<b>125</b>	<b>1340</b>	<b>mg/kg</b>	<b>10000</b>	<b>9/25/22 11:21</b>

**Gravimetric - General Chemistry**

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Percent Solids	100				%	1	9/20/22 11:08

ND, U - Indicates compound analyzed for but not detected  
J - Indicates estimated value  
B - Indicates compound found in associated blank  
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution  
H - Indicates a Hold Time violation  
P - Greater than 25% diff. between 2 GC columns.  
MDL - Minimum detection limit, RL - Reporting limit



AQUA PRO-TECH LABORATORIES  
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# PCBs

Edyta Komorek

Work Order: 2090813

Project: Colonia High School



# ANALYSIS DATA SHEET

PCBs - SW 846 8082A

**Client:** Edyta Komorek  
**Client Sample ID:** Blank  
**Lab Sample ID:** B2I1948-BLK1

**Project:** Colonia High School  
**Work Order:** 2090813

Init/Final Vol:	15 g / 10 mL	Prep Date:	09/19/2022 21:08	File ID:	6B66614.D
		Prep Batch:	B2I1948	Analyzed:	09/29/2022 11:59
		Matrix:	Soil	Sequence:	S2I2922
		Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Qual
12674-11-2	Aroclor-1016	ND	0.00443	0.0330	U
11104-28-2	Aroclor-1221	ND	0.00870	0.0330	U
11141-16-5	Aroclor-1232	ND	0.0111	0.0330	U
53469-21-9	Aroclor-1242	ND	0.00648	0.0330	U
12672-29-6	Aroclor-1248	ND	0.00678	0.0330	U
11097-69-1	Aroclor-1254	ND	0.00533	0.0330	U
11096-82-5	Aroclor-1260	ND	0.00413	0.0330	U
37324-23-5	Aroclor-1262	ND	0.00888	0.0330	U
11100-14-4	Aroclor-1268	ND	0.00399	0.0330	U
1336-36-3	Total PCBs	ND	0.00308	0.0330	U

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66614.D\ECD1A.CH Vial: 10  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66614.D\ECD2B.CH  
 Acq On : 29 Sep 2022 11:59 Operator: RL  
 Sample : B2I1948-BLK1 Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 29 14:37 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
System Monitoring Compounds						
1) S TCMX	3.87	4.33	763.7E6	328.8E6	34.324	34.614
Spiked Amount	50.000	Range	40 - 149	Recovery =	68.65%	69.23%
2) S Decachlorobiphen	13.01	16.35	640.9E6	289.6E6	28.723	31.126
Spiked Amount	50.000	Range	52 - 136	Recovery =	57.45%	62.25%
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

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 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66614.D 80820906.M Fri Sep 30 09:42:23 2022 SS

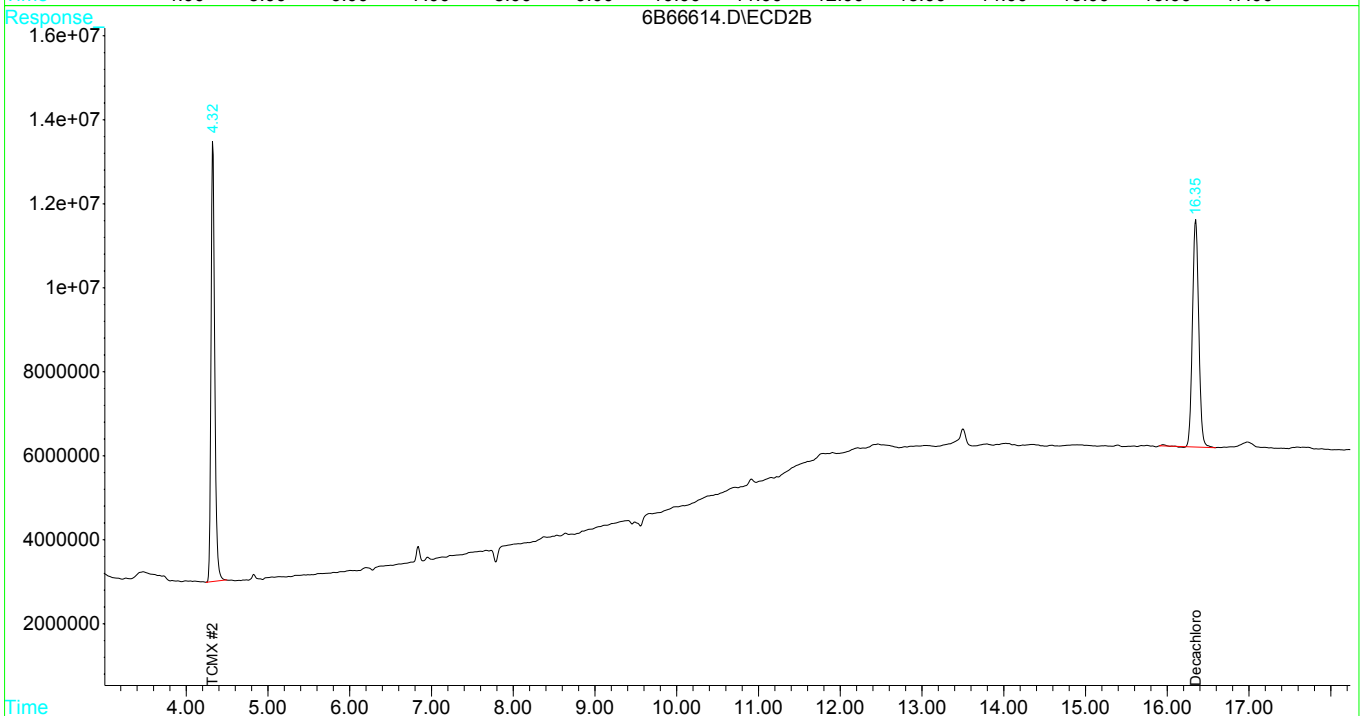
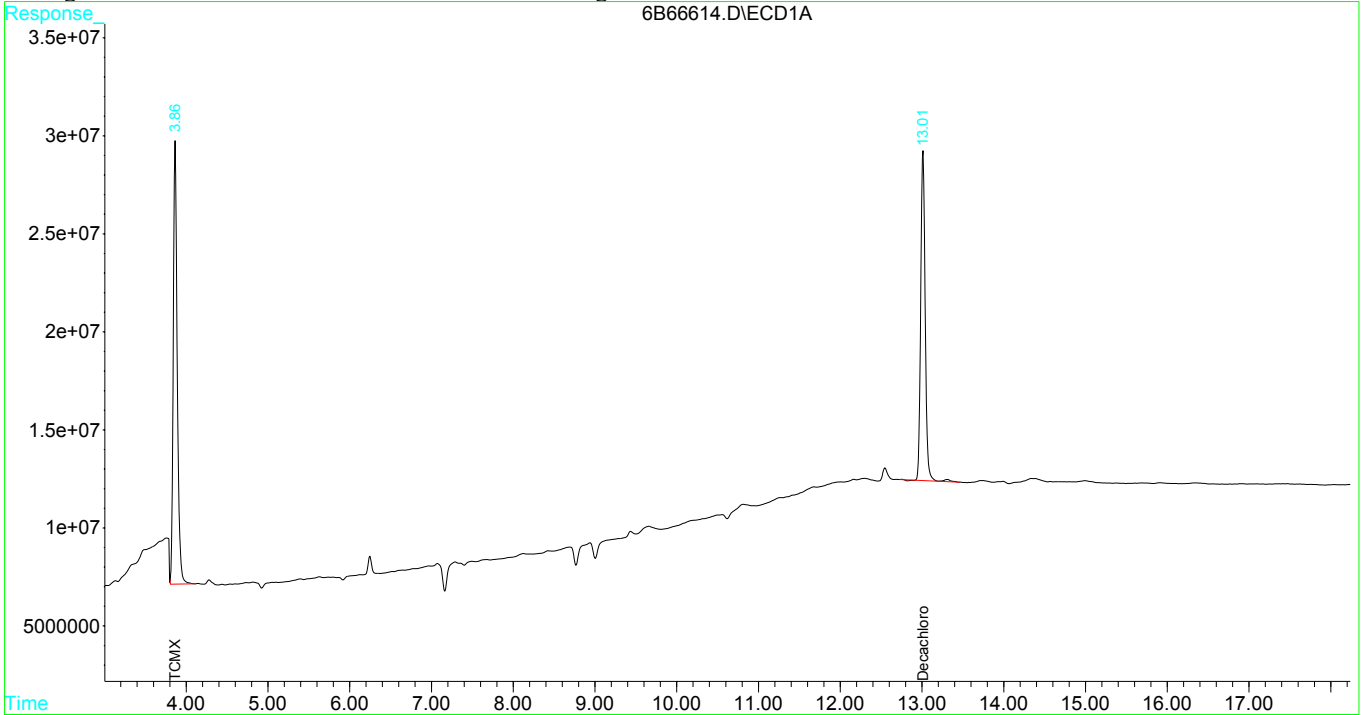


Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66614.D\ECD1A.CH Vial: 10  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66614.D\ECD2B.CH  
Acq On : 29 Sep 2022 11:59 Operator: RL  
Sample : B2I1948-BLK1 Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 29 14:37 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um



# ANALYSIS DATA SHEET

PCBs - SW 846 8082A

**Client:** Edyta Komorek  
**Client Sample ID:** Blank  
**Lab Sample ID:** B2I1948-BLK2

**Project:** Colonia High School  
**Work Order:** 2090813

Init/Final Vol:	15 g / 10 mL	Prep Date:	09/20/2022 18:37	File ID:	6B66307.D
		Prep Batch:	B2I1948	Analyzed:	09/23/2022 16:14
		Matrix:	Soil	Sequence:	S2I2402
		Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Qual
12674-11-2	Aroclor-1016	ND	0.00443	0.0330	U
11104-28-2	Aroclor-1221	ND	0.00870	0.0330	U
11141-16-5	Aroclor-1232	ND	0.0111	0.0330	U
53469-21-9	Aroclor-1242	ND	0.00648	0.0330	U
12672-29-6	Aroclor-1248	ND	0.00678	0.0330	U
11097-69-1	Aroclor-1254	ND	0.00533	0.0330	U
11096-82-5	Aroclor-1260	ND	0.00413	0.0330	U
37324-23-5	Aroclor-1262	ND	0.00888	0.0330	U
11100-14-4	Aroclor-1268	ND	0.00399	0.0330	U
1336-36-3	Total PCBs	ND	0.00308	0.0330	U

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66307.D\ECD1A.CH Vial: 9  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66307.D\ECD2B.CH  
 Acq On : 23 Sep 2022 16:14 Operator: RL  
 Sample : B2I1948-BLK2 Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 24 11:14 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
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System Monitoring Compounds

1) S TCMX	3.87	4.33	876.2E6	351.6E6	39.379	37.005
Spiked Amount	50.000	Range	40 - 149	Recovery =	78.76%	74.01%
2) S Decachlorobiphen	13.02	16.35	615.8E6	266.5E6	27.597	28.638
Spiked Amount	50.000	Range	52 - 136	Recovery =	55.19%	57.28%

Target Compounds

Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66307.D 80820906.M Sat Sep 24 11:51:07 2022 SS

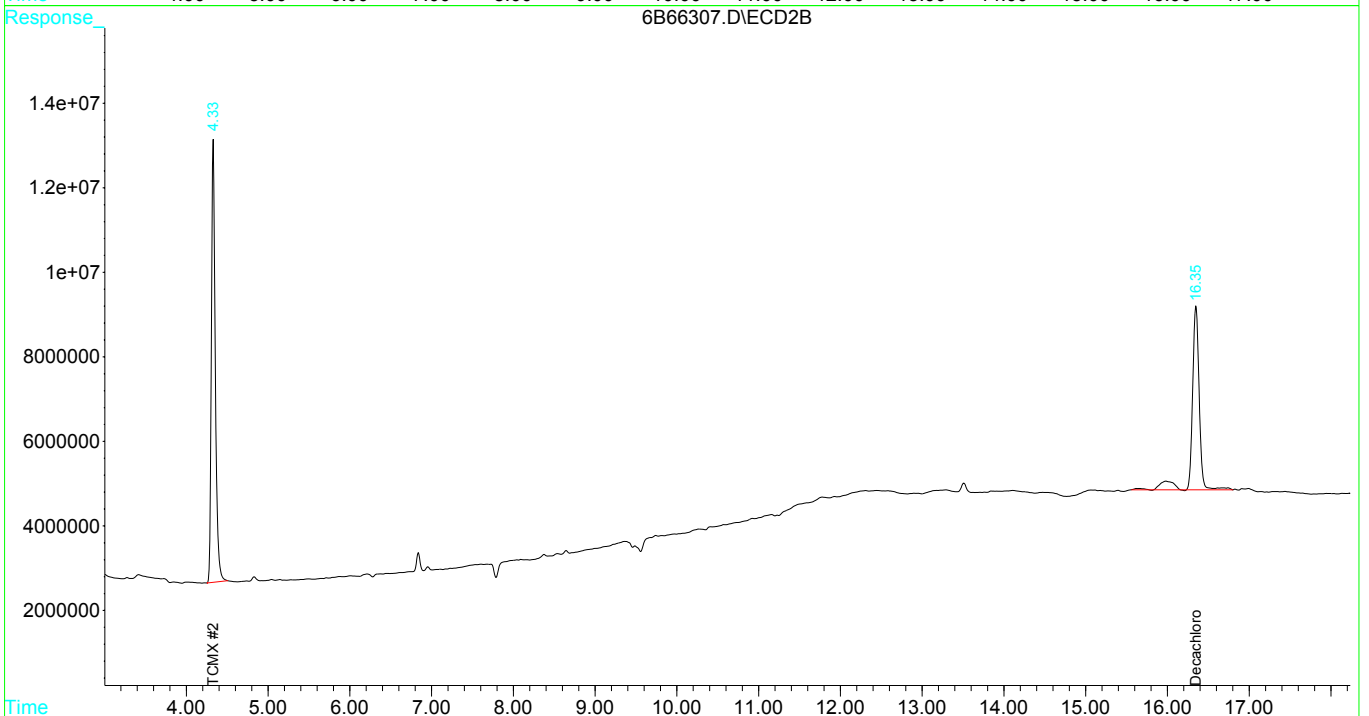
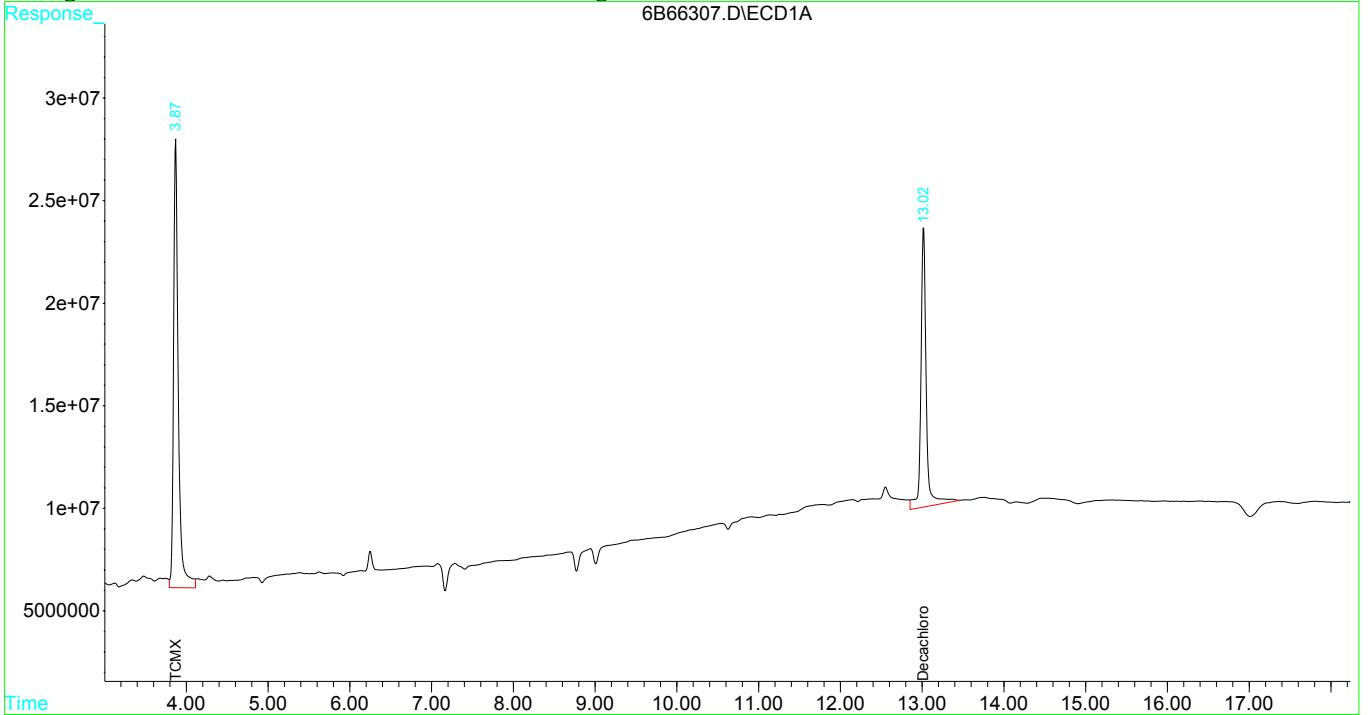


Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66307.D\ECD1A.CH Vial: 9  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66307.D\ECD2B.CH  
Acq On : 23 Sep 2022 16:14 Operator: RL  
Sample : B2I1948-BLK2 Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 24 11:14 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um



# ANALYSIS DATA SHEET

PCBs - SW 846 8082A

**Client:** Edyta Komorek  
**Client Sample ID:** Blank  
**Lab Sample ID:** B2I2138-BLK1

**Project:** Colonia High School  
**Work Order:** 2090813

Init/Final Vol:	15 g / 10 mL	Prep Date:	09/21/2022 16:54	File ID:	6B66610.D
		Prep Batch:	B2I2138	Analyzed:	09/29/2022 10:34
		Matrix:	Soil	Sequence:	S2I2922
		Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg wet)	MDL	RL	Qual
12674-11-2	Aroclor-1016	ND	0.00443	0.0330	U
11104-28-2	Aroclor-1221	ND	0.00870	0.0330	U
11141-16-5	Aroclor-1232	ND	0.0111	0.0330	U
53469-21-9	Aroclor-1242	ND	0.00648	0.0330	U
12672-29-6	Aroclor-1248	ND	0.00678	0.0330	U
11097-69-1	Aroclor-1254	ND	0.00533	0.0330	U
11096-82-5	Aroclor-1260	ND	0.00413	0.0330	U
37324-23-5	Aroclor-1262	ND	0.00888	0.0330	U
11100-14-4	Aroclor-1268	ND	0.00399	0.0330	U
1336-36-3	Total PCBs	ND	0.00308	0.0330	U

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Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66610.D\ECD1A.CH Vial: 6  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66610.D\ECD2B.CH  
 Acq On : 29 Sep 2022 10:34 Operator: RL  
 Sample : B2I2138-BLK1 Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 29 14:19 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
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System Monitoring Compounds

1) S TCMX	3.87	4.33	744.2E6	316.6E6	33.446	33.322
Spiked Amount	50.000	Range	40 - 149	Recovery =	66.89%	66.64%
2) S Decachlorobiphen	13.01	16.35	683.0E6	299.6E6	30.610m	32.200
Spiked Amount	50.000	Range	52 - 136	Recovery =	61.22%	64.40%

Target Compounds

Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66610.D 80820906.M Thu Sep 29 14:48:04 2022 SS

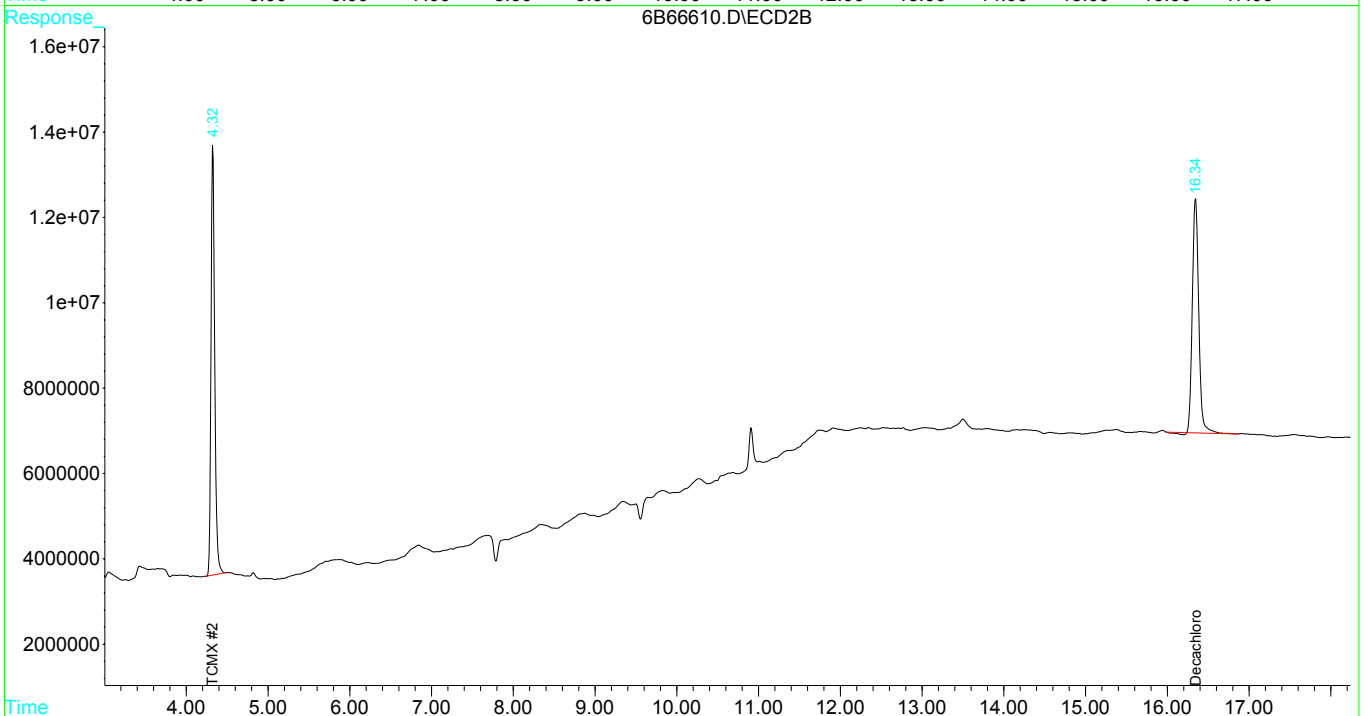
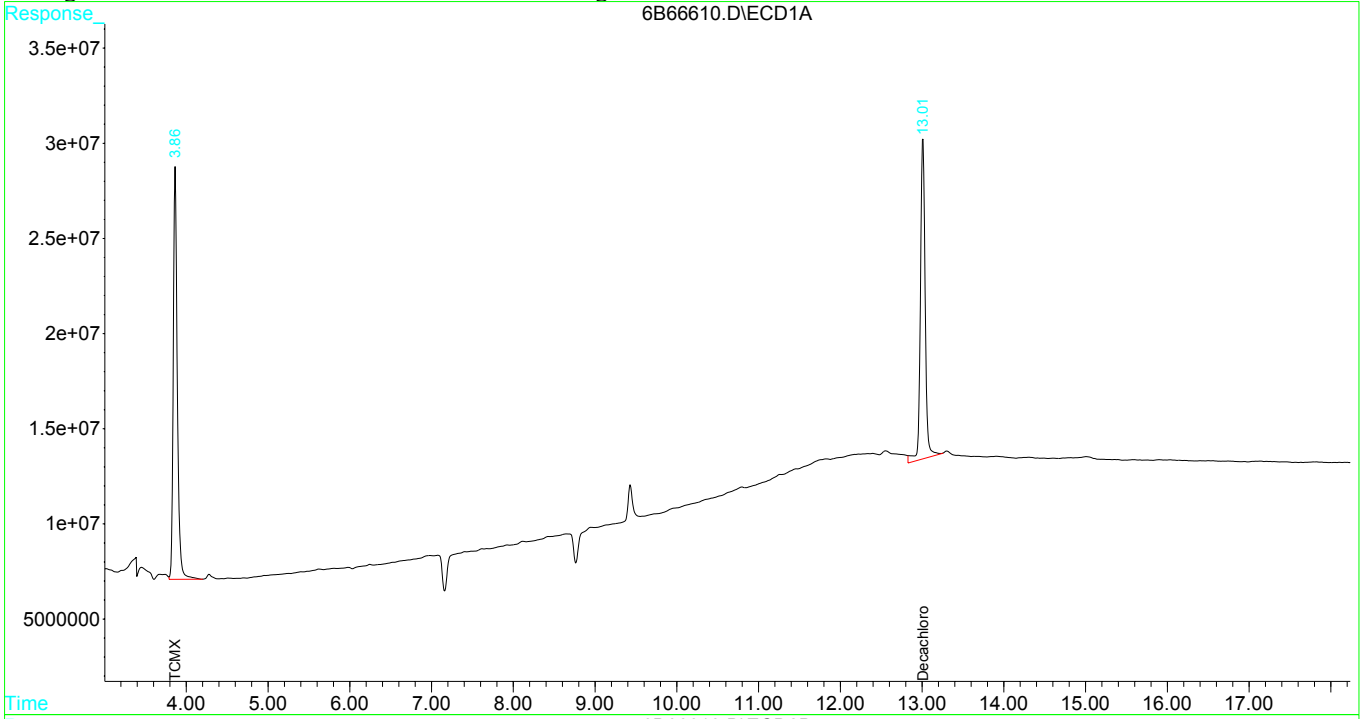


Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66610.D\ECD1A.CH Vial: 6  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66610.D\ECD2B.CH  
Acq On : 29 Sep 2022 10:34 Operator: RL  
Sample : B2I2138-BLK1 Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 29 14:19 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um



# ANALYSIS DATA SHEET

PCBs - SW 846 8082A

**Client:** Edyta Komorek  
**Client Sample ID:** S-1  
**Lab Sample ID:** 2090813-01  
**Project:** Colonia High School  
**Work Order:** 2090813

Date Sampled: 09/18/22 13:50	Prep Date: 09/19/22 21:08	File ID: 6B66300.D
Init/Final Vol: 15 g / 10 mL	Prep Batch: B211948	Analyzed: 09/23/22 13:45
Dilution: 500	Matrix: Soil	Sequence: S212402
Percent Solids: 75.93	Prep Method: Sonication GC	

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Qual
12674-11-2	Aroclor-1016	ND	2.91	21.7	U
11104-28-2	Aroclor-1221	ND	5.73	21.7	U
11141-16-5	Aroclor-1232	ND	7.29	21.7	U
53469-21-9	Aroclor-1242	ND	4.27	21.7	U
12672-29-6	Aroclor-1248	ND	4.47	21.7	U
11097-69-1	Aroclor-1254 [2C]	575	2.03	21.7	D
11096-82-5	Aroclor-1260	ND	2.72	21.7	U
37324-23-5	Aroclor-1262	ND	5.85	21.7	U
11100-14-4	Aroclor-1268	ND	2.63	21.7	U
1336-36-3	Total PCBs	575	2.03	21.7	D

9.2.

**ND, U** - Indicates compound analyzed for but not detected  
**J** - Indicates estimated value  
**B** - Indicates compound found in associated blank  
**E** - Concentration exceeds highest calibration standard

**D** - Indicates result is based on a dilution  
**H** - Indicates a Hold Time violation  
**P** - Greater than 25% diff. between 2 GC columns.  
**MDL** - Minimum detection limit, **RL** - Reporting limit

F-1

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66300.D\ECD1A.CH Vial: 2  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66300.D\ECD2B.CH  
 Acq On : 23 Sep 2022 13:45 Operator: RL  
 Sample : 2090813-01@500 Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 26 9:20 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.87	4.32	1259038	716682	0.057m	0.075m#
Spiked Amount	50.000	Range	40 - 149	Recovery =	0.11%#	0.15%#
2) S Decachlorobiphen	13.11f	16.43f	18454218	11691626	0.827m	1.256m#
Spiked Amount	50.000	Range	52 - 136	Recovery =	1.65%#	2.51%#
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
30) L8 Aroclor-1254 (1)	6.54	7.95f	718.2E6	567.7E6	1036.498	1975.603 #
31) L8 Aroclor-1254 (2)	6.95	0.00	1325.7E6	0	980.307	N.D. #
32) L8 Aroclor-1254 (3)	7.43	8.98	619.5E6	224.6E6	890.165	868.232
33) L8 Aroclor-1254 (4)	7.64f	9.21	1455.5E6	548.8E6	1062.447	977.818
34) L8 Aroclor-1254 (5)	8.13	9.64	1485.0E6	587.1E6	1168.559	1197.229
35) L8 Aroclor-1254 (6)	8.66f	10.29f	930.3E6	534.3E6	1289.584	1267.554m
36) L8 Aroclor-1254 (7)	8.96	10.69	2072.2E6	885.6E6	1516.241	1568.635
Sum Aroclor-1254 (1)			8606.3E6	3348.2E6	7943.802	7855.072
Average Aroclor-1254 (1)					1134.829	1309.179
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66300.D 80820906.M Mon Sep 26 09:30:24 2022 SS

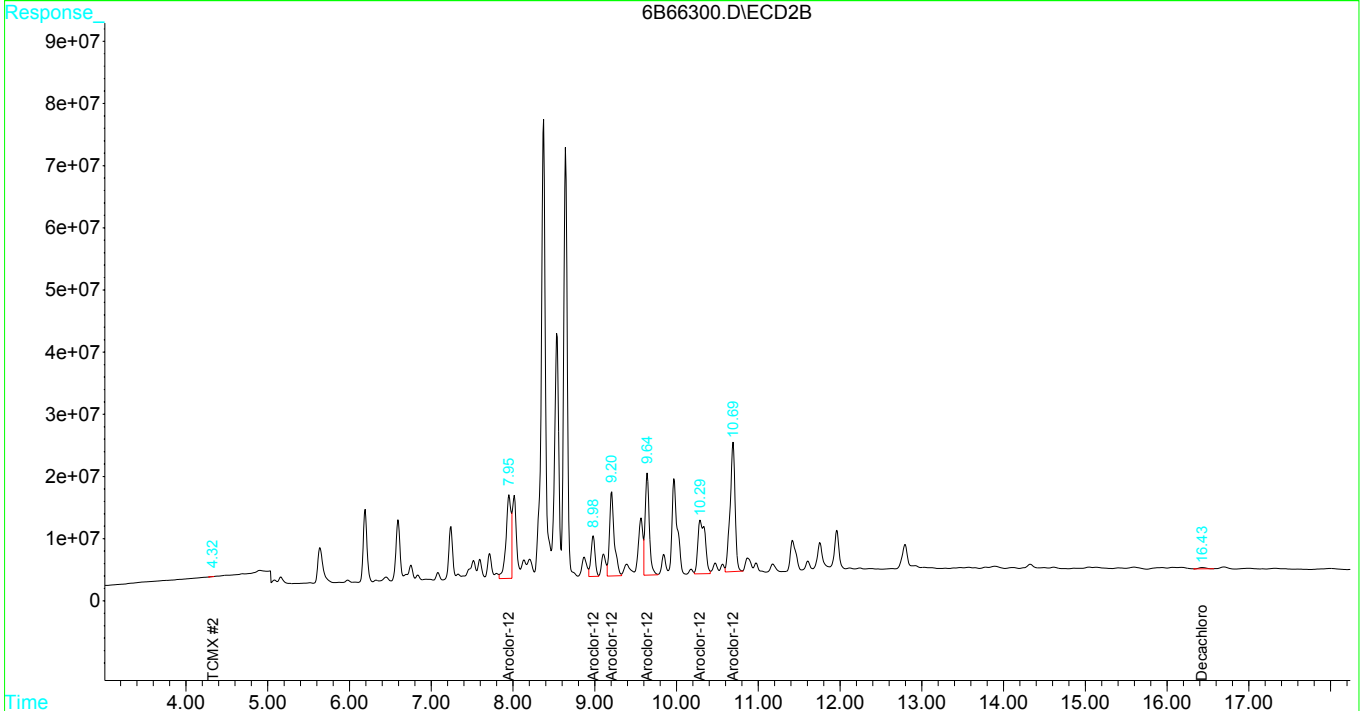
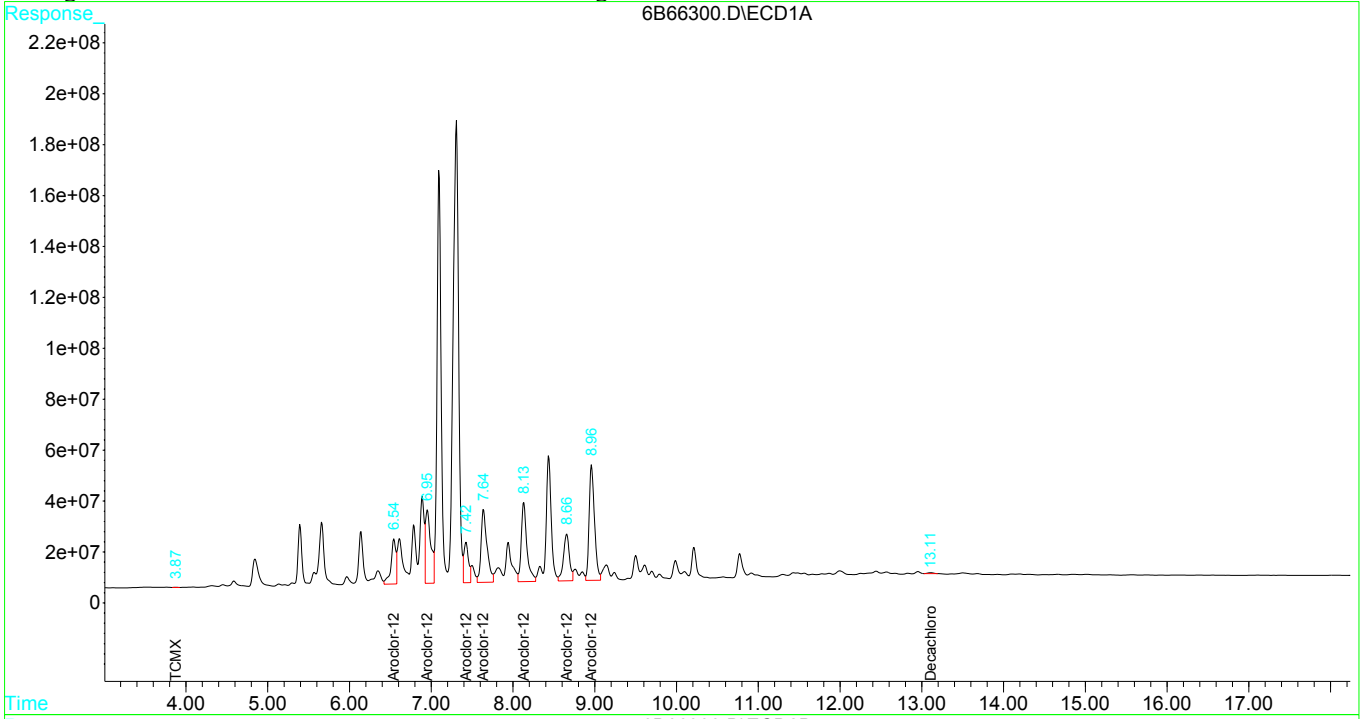
9  
9.2.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66300.D\ECD1A.CH Vial: 2  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66300.D\ECD2B.CH  
Acq On : 23 Sep 2022 13:45 Operator: RL  
Sample : 2090813-01@500 Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 26 9:20 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





# ANALYSIS DATA SHEET

PCBs - SW 846 8082A

**Client:** Edyta Komorek  
**Client Sample ID:** Caulk-1  
**Lab Sample ID:** 2090813-02  
**Project:** Colonia High School  
**Work Order:** 2090813

Date Sampled:	09/18/22 13:49	Prep Date:	09/21/22 16:54	File ID:	6B66400.D
Init/Final Vol:	3.7 g / 10 mL	Prep Batch:	B2I2138	Analyzed:	09/25/22 11:21
Dilution:	10000	Matrix:	Solid	Sequence:	S2I2601
Percent Solids:	100.00	Prep Method:	Sonication GC		

CAS NO.	COMPOUND	CONC. (mg/kg dry)	MDL	RL	Qual
12674-11-2	Aroclor-1016	ND	179	1340	U
11104-28-2	Aroclor-1221	ND	353	1340	U
11141-16-5	Aroclor-1232	ND	449	1340	U
53469-21-9	Aroclor-1242	ND	263	1340	U
12672-29-6	Aroclor-1248	ND	275	1340	U
11097-69-1	Aroclor-1254 [2C]	50500	125	1340	D
11096-82-5	Aroclor-1260	ND	168	1340	U
37324-23-5	Aroclor-1262	ND	360	1340	U
11100-14-4	Aroclor-1268	ND	162	1340	U
1336-36-3	Total PCBs	50500	125	1340	D

**ND, U** - Indicates compound analyzed for but not detected  
**J** - Indicates estimated value  
**B** - Indicates compound found in associated blank  
**E** - Concentration exceeds highest calibration standard

**D** - Indicates result is based on a dilution  
**H** - Indicates a Hold Time violation  
**P** - Greater than 25% diff. between 2 GC columns.  
**MDL** - Minimum detection limit, **RL** - Reporting limit

F-I

9  
9.2.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220925\6B66400.D\ECD1A.CH Vial: 2  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220925\6B66400.D\ECD2B.CH  
 Acq On : 25 Sep 2022 11:21 Operator: RL  
 Sample : 2090813-02@10000 Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 26 9:22 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.85	4.32	122729	60029	0.006m	0.006m
Spiked Amount	50.000	Range	40 - 149	Recovery =	0.01%#	0.01%#
2) S Decachlorobiphen	13.11f	16.43f	12311791	8540881	0.552m	0.918m#
Spiked Amount	50.000	Range	52 - 136	Recovery =	1.10%#	1.84%#
Target Compounds						
Sum Aroclor-1016 (1)			0	0	N.D.	N.D.
Average Aroclor-1016 (1)					0.000	0.000
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
30) L8 Aroclor-1254 (1)	6.53	7.98	897.0E6	439.3E6	1294.583	1528.809
31) L8 Aroclor-1254 (2)	6.94	8.32	2099.0E6	618.1E6	1552.152m	1736.776
32) L8 Aroclor-1254 (3)	7.41	8.98	1245.2E6	472.9E6	1789.290m	1827.536
33) L8 Aroclor-1254 (4)	7.63	9.21	2497.1E6	1079.2E6	1822.807	1922.945
34) L8 Aroclor-1254 (5)	8.13f	9.64	2339.3E6	927.1E6	1840.854	1890.573
35) L8 Aroclor-1254 (6)	8.66f	10.28f	1674.6E6	869.8E6	2321.230	2063.437m
36) L8 Aroclor-1254 (7)	8.96	10.69	2838.3E6	1194.0E6	2076.747	2114.825
Sum Aroclor-1254 (1)			13590.4E6	5600.4E6	12697.663	13084.899
Average Aroclor-1254 (1)					1813.952	1869.271
Sum Aroclor-1260 (1)			0	0	N.D.	N.D.
Average Aroclor-1260 (1)					0.000	0.000
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

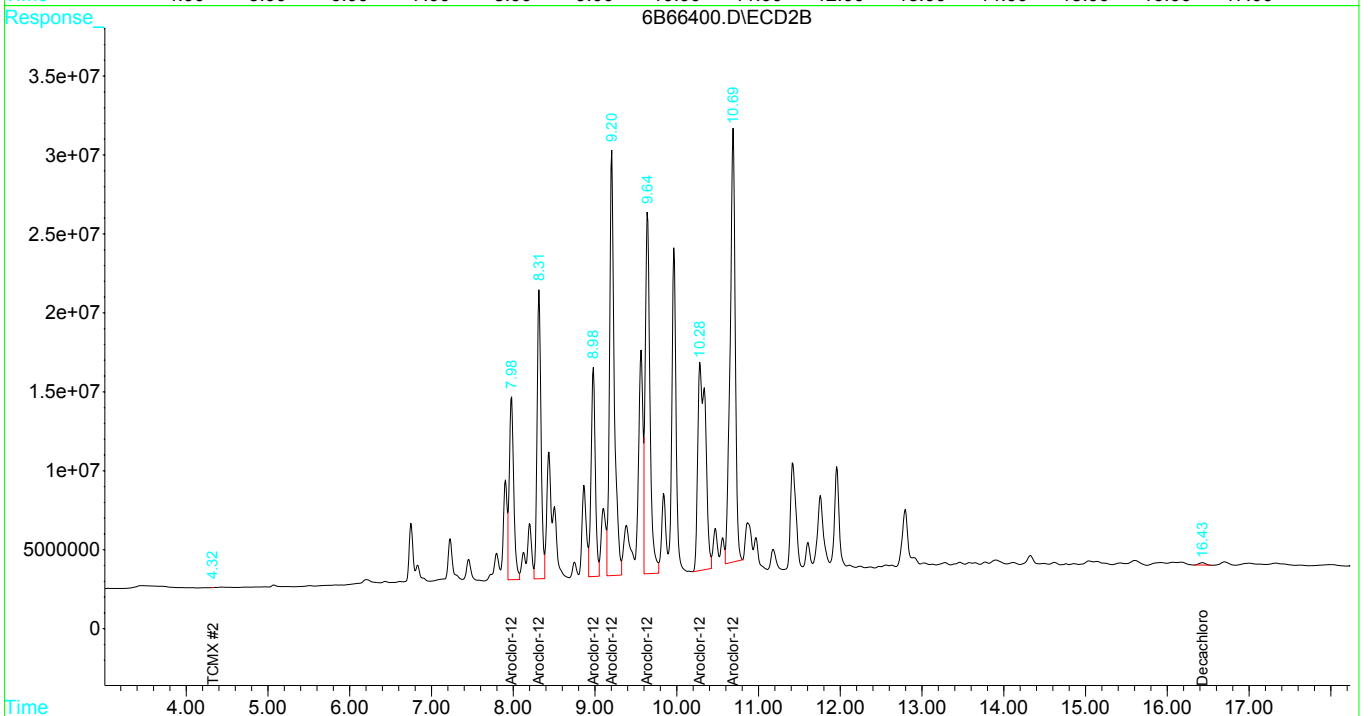
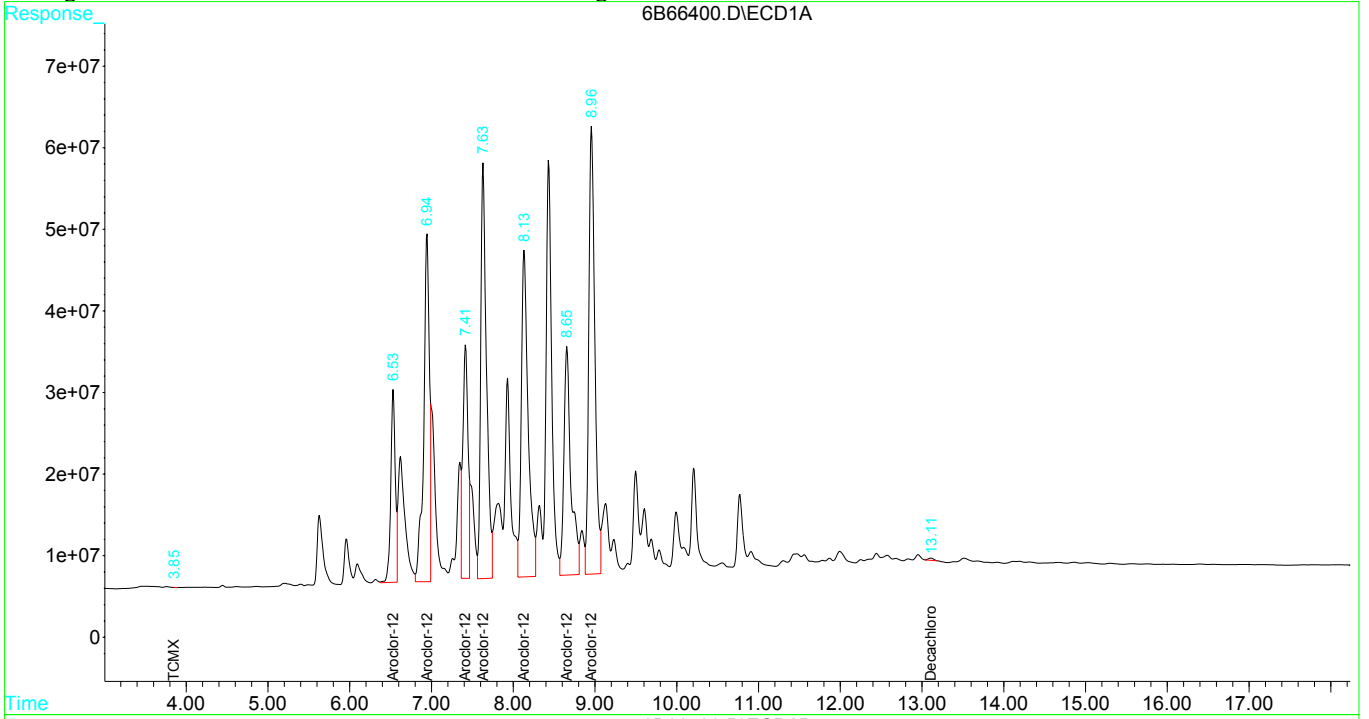
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 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66400.D 80820906.M Mon Sep 26 09:35:40 2022 SS

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220925\6B66400.D\ECD1A.CH Vial: 2  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220925\6B66400.D\ECD2B.CH  
Acq On : 25 Sep 2022 11:21 Operator: RL  
Sample : 2090813-02@10000 Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 26 9:22 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um



## SURROGATE RECOVERIES

Analysis Class: PCBs

**Matrix:** Soil **Method:** SW 846 8082A

**PCBs**

Lab Number	File ID	TCMX	DCB	TCMX[2C]	DCB[2C]
2090813-01	6B66300.D	60.0	830 *	80.0	1260 *
2090813-02	6B66400.D	200 *	11000 *	200 *	18400 *
B2I1948-BLK1	6B66614.D	68.6	57.4	69.2	62.3
B2I1948-BLK2	6B66307.D	78.8	55.2	74.0	57.3
B2I1948-BS1	6B66615.D	74.6	60.8	75.2	64.7
B2I1948-BS2	6B66308.D	77.5	50.5 *	74.5	55.9
B2I1948-MS1	6B66616.D	43.8	48.9 *	46.6	58.5
B2I1948-MSD1	6B66617.D	43.1	43.0 *	46.0	46.6 *
B2I2138-BLK1	6B66610.D	66.9	61.2	66.6	64.4
B2I2138-BS1	6B66611.D	70.8	58.4	69.0	62.3
B2I2138-MS1	6B66621.D	87.4	75.8	75.0	64.4
B2I2138-MSD1	6B66622.D	78.4	88.4	85.0	82.2

9.3.

### Surrogate Limits

Acronym	Lo Limit	Hi Limit	Analyte
TCMX	40.2	149	Tetrachloro-m-xylene
DCB	52.1	136	Decachlorobiphenyl
TCMX[2C]	40.2	149	Tetrachloro-m-xylene [2C]
DCB[2C]	52.1	136	Decachlorobiphenyl [2C]

**PCBs - Quality Control**  
**Aqua Pro-Tech Laboratories**

<b>Batch B2I1948</b>		<b>Method: SW 846 8082A</b>			<b>Prepared: 09/19/2022</b>			
B2I1948-BS1		<b>Source:</b>						
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>%REC</b>	<b>%REC Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
Aroclor-1016	0.326	mg/kg wet	0.333		97.7	59.6-147		
Aroclor-1260	0.287	mg/kg wet	0.333		86.0	50.4-149		

<b>Batch B2I1948 (cont.)</b>		<b>Method: SW 846 8082A</b>			<b>Prepared: 09/20/2022</b>			
B2I1948-BS2		<b>Source:</b>						
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>%REC</b>	<b>%REC Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
Aroclor-1016	0.354	mg/kg wet	0.333		106	59.6-147		
Aroclor-1260	0.283	mg/kg wet	0.333		85.0	50.4-149		

<b>Batch B2I1948 (cont.)</b>		<b>Method: SW 846 8082A</b>			<b>Prepared: 09/19/2022</b>			
B2I1948-MS1		<b>Source: 2090816-01</b>						
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>%REC</b>	<b>%REC Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
Aroclor-1016	0.338	mg/kg dry	0.365	ND	92.6	42.8-169		
Aroclor-1260	0.249	mg/kg dry	0.365	ND	68.1	26.2-172		

<b>Batch B2I1948 (cont.)</b>		<b>Method: SW 846 8082A</b>			<b>Prepared: 09/19/2022</b>			
B2I1948-MSD1		<b>Source: 2090816-01</b>						
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>%REC</b>	<b>%REC Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
Aroclor-1016	0.330	mg/kg dry	0.365	ND	90.4	42.8-169	2.48	37.5
Aroclor-1260	0.235	mg/kg dry	0.365	ND	64.2	26.2-172	5.87	21.8

<b>Batch B2I2138</b>		<b>Method: SW 846 8082A</b>			<b>Prepared: 09/21/2022</b>			
B2I2138-BS1		<b>Source:</b>						
<b>Analyte</b>	<b>Result</b>	<b>Units</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>%REC</b>	<b>%REC Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
Aroclor-1016	0.330	mg/kg wet	0.333		99.1	59.6-147		
Aroclor-1260	0.272	mg/kg wet	0.333		81.5	50.4-149		

\* - Outside of QC Limits      J - Result is between the MDL and RL for an Analysis reported to an RL  
 NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

F-III

9.4.

**PCBs - Quality Control**  
**Aqua Pro-Tech Laboratories**

<b>Batch B2I2138 (cont.)</b>	<b>Method: SW 846 8082A</b>	<b>Prepared: 09/21/2022</b>
B2I2138-MS1	<b>Source: 2090875-21</b>	

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aroclor-1016	0.508	mg/kg dry	0.511	ND	99.6	42.8-169		
Aroclor-1260	11.0	mg/kg dry	0.511	6.41	908(NC)	26.2-172		

<b>Batch B2I2138 (cont.)</b>	<b>Method: SW 846 8082A</b>	<b>Prepared: 09/21/2022</b>
B2I2138-MSD1	<b>Source: 2090875-21</b>	

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aroclor-1016	0.510	mg/kg dry	0.511	ND	99.9	42.8-169	0.366	37.5
Aroclor-1260	12.5	mg/kg dry	0.511	6.41	1200(NC)	26.2-172	12.5	21.8

9.4.

F-III      \* - Outside of QC Limits      J - Result is between the MDL and RL for an Analysis reported to an RL  
 NC - Outside the recovery criteria but Spike Amount <1/4 amount found in Source Sample

## METHOD BLANK SUMMARY

**Batch ID:** B2I1948

<u>Lab Number</u>	<u>Sample Id</u>	<u>Extraction Date</u>	<u>Analysis Date</u>
B2I1948-BLK1	BLK1	09/19/2022	09/29/2022 11:59
B2I1948-BS1	BS1	09/19/2022	09/29/2022 12:20
B2I1948-MS1	MS1	09/19/2022	09/29/2022 12:42
B2I1948-MSD1	MSD1	09/19/2022	09/29/2022 13:03
2090813-01	S-1	09/19/2022	09/23/2022 13:45
B2I1948-BLK2	BLK2	09/20/2022	09/23/2022 16:14
B2I1948-BS2	BS2	09/20/2022	09/23/2022 16:35

**Batch ID:** B2I2138

<u>Lab Number</u>	<u>Sample Id</u>	<u>Extraction Date</u>	<u>Analysis Date</u>
B2I2138-BLK1	BLK1	09/21/2022	09/29/2022 10:34
B2I2138-BS1	BS1	09/21/2022	09/29/2022 10:55
B2I2138-MS1	MS1	09/21/2022	09/29/2022 14:29
B2I2138-MSD1	MSD1	09/21/2022	09/29/2022 14:51
2090813-02	Caulk-1	09/21/2022	09/25/2022 11:21



9.5.

# SURROGATE RT DRIFT REPORT

Analysis Class: PCBs

**Sequence : S2I2402**

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
2090813-01	6B66300.D	3.87	3.88	-0.01	13.11	13.03	0.08	4.32	4.33	-0.01	16.43	16.36	0.07
B2I1948-BLK2	6B66307.D	3.87	3.88	-0.01	13.02	13.03	-0.01	4.33	4.33	0.00	16.35	16.36	-0.01
B2I1948-BS2	6B66308.D	3.87	3.88	-0.01	13.02	13.03	-0.01	4.33	4.33	0.00	16.36	16.36	0.00

**Sequence : S2I2601**

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
2090813-02	6B66400.D	3.85	3.88	-0.03	13.11	13.03	0.08	4.32	4.33	-0.01	16.43	16.35	0.08

**Sequence : S2I2922**

		TCMX			DCB			TCMX[2C]			DCB[2C]		
Lab Number	File ID	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift	RT	Ref RT	Drift
B2I2138-BLK1	6B66610.D	3.87	3.87	0.00	13.01	13.02	-0.01	4.33	4.32	0.01	16.35	16.34	0.01
B2I2138-BS1	6B66611.D	3.87	3.87	0.00	13.01	13.02	-0.01	4.33	4.32	0.01	16.34	16.34	0.00
B2I1948-BLK1	6B66614.D	3.87	3.87	0.00	13.01	13.02	-0.01	4.33	4.32	0.01	16.35	16.34	0.01
B2I1948-BS1	6B66615.D	3.87	3.87	0.00	13.02	13.02	0.00	4.33	4.32	0.01	16.35	16.34	0.01
B2I1948-MS1	6B66616.D	3.87	3.87	0.00	13.01	13.02	-0.01	4.33	4.32	0.01	16.35	16.34	0.01
B2I1948-MSD1	6B66617.D	3.87	3.87	0.00	13.01	13.02	-0.01	4.33	4.32	0.01	16.35	16.34	0.01
B2I2138-MS1	6B66621.D	3.87	3.87	0.00	13.01	13.02	-0.01	4.32	4.32	0.00	16.34	16.34	0.00
B2I2138-MSD1	6B66622.D	3.86	3.87	-0.01	13.01	13.02	-0.01	4.32	4.32	0.00	16.34	16.34	0.00

Surrogate	Limit
TCMX	Tetrachloro-m-xylene 0.10
DCB	Decachlorobiphenyl 0.10
TCMX[2C]	Tetrachloro-m-xylene [2C] 0.10
DCB[2C]	Decachlorobiphenyl [2C] 0.10

DISS = Dissolved Analysis

F-V

9.6.



Compound List Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820210.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Fri Feb 11 12:03:41 2022  
 Response via : Initial Calibration  
 Total Cpnds : 103

PK#	Type	Compound Name	Exp RT	Rel RT	Cal	A/H	ID
1	S	TCMX	3.91	1.000	A	A	B
2	S	Decachlorobiphenyl	13.18	1.000	A	A	B
3	L3	Aroclor-1016 (1)	4.26	1.000	A	A	B
4	L3	Aroclor-1016 (2)	4.67	1.000	A	A	B
5	L3	Aroclor-1016 (3)	5.26	1.000	A	A	B
6	L3	Aroclor-1016 (4)	5.45	1.000	A	A	B
7	L3	Aroclor-1016 (5)	6.03	1.000	A	A	B
8	L4	Aroclor-1221 (1)	3.40	1.000	A	A	B
9	L4	Aroclor-1221 (2)	4.06	1.000	A	A	B
10	L4	Aroclor-1221 (3)	4.26	1.000	A	A	B
11	L4	Aroclor-1221 (4)	4.67	1.000	A	A	B
12	L4	Aroclor-1221 (5)	4.83	1.000	A	A	B
13	L5	Aroclor-1232 (1)	4.26	1.000	A	A	B
14	L5	Aroclor-1232 (2)	4.67	1.000	A	A	B
15	L5	Aroclor-1232 (3)	5.26	1.000	A	A	B
16	L5	Aroclor-1232 (4)	5.45	1.000	A	A	B
17	L5	Aroclor-1232 (5)	6.04	1.000	A	A	B
18	L6	Aroclor-1242 (1)	4.67	1.000	A	A	B
19	L6	Aroclor-1242 (2)	5.26	1.000	A	A	B
20	L6	Aroclor-1242 (3)	5.45	1.000	A	A	B
21	L6	Aroclor-1242 (4)	6.04	1.000	A	A	B
22	L6	Aroclor-1242 (5)	6.73	1.000	A	A	B
23	L7	Aroclor-1248 (1)	4.67	1.000	A	A	B
24	L7	Aroclor-1248 (2)	5.26	1.000	A	A	B
25	L7	Aroclor-1248 (3)	5.70	1.000	A	A	B
26	L7	Aroclor-1248 (4)	6.03	1.000	A	A	B
27	L7	Aroclor-1248 (5)	6.17	1.000	A	A	B
28	L7	Aroclor-1248 (6)	6.73	1.000	A	A	B
29	L7	Aroclor-1248 (7)	7.00	1.000	A	A	B
30	L8	Aroclor-1254 (1)	6.62	1.000	A	A	B
31	L8	Aroclor-1254 (2)	7.03	1.000	A	A	B
32	L8	Aroclor-1254 (3)	7.50	1.000	A	A	B
33	L8	Aroclor-1254 (4)	7.71	1.000	A	A	B
34	L8	Aroclor-1254 (5)	8.20	1.000	A	A	B
35	L8	Aroclor-1254 (6)	8.70	1.000	A	A	B
36	L8	Aroclor-1254 (7)	9.04	1.000	A	A	B
37	L9	Aroclor-1260 (1)	9.04	1.000	A	A	B
38	L9	Aroclor-1260 (2)	9.24	1.000	A	A	B
39	L9	Aroclor-1260 (3)	9.71	1.000	A	A	B
40	L9	Aroclor-1260 (4)	10.30	1.000	A	A	B
41	L9	Aroclor-1260 (5)	10.87	1.000	A	A	B
42	L1	Aroclor-1262 (1)	8.52	1.000	A	A	B
43	L1	Aroclor-1262 (2)	9.24	1.000	A	A	B
44	L1	Aroclor-1262 (3)	9.71	1.000	A	A	B
45	L1	Aroclor-1262 (4)	10.30	1.000	A	A	B
46	L1	Aroclor-1262 (5)	10.92	1.000	A	A	B
47	L2	Aroclor-1268 (1)	10.92	1.000	A	A	B
48	L2	Aroclor-1268 (2)	11.00	1.000	A	A	B
49	L2	Aroclor-1268 (3)	11.38	1.000	A	A	B
50	L2	Aroclor-1268 (4)	12.10	1.000	A	A	B
51	L2	Aroclor-1268 (5)	12.72	1.000	A	A	B
52		Signal #2	34.78	1.000	A	A	B
53	S	TCMX #2	4.36	1.000	A	A	B
54	S	Decachlorobiphenyl #2	16.53	1.000	A	A	B
55	L3	Aroclor-1016 (1) #2	4.97	1.000	A	A	B
56	L3	Aroclor-1016 (2) #2	5.56	1.000	A	A	B
57	L3	Aroclor-1016 (3) #2	6.28	1.000	A	A	B
58	L3	Aroclor-1016 (4) #2	6.50	1.000	A	A	B
59	L3	Aroclor-1016 (5) #2	7.30	1.000	A	A	B
60	L4	Aroclor-1221 (1) #2	3.79	1.000	A	A	B
61	L4	Aroclor-1221 (2) #2	4.69	1.000	A	A	B
62	L4	Aroclor-1221 (3) #2	4.97	1.000	A	A	B
63	L4	Aroclor-1221 (4) #2	5.55	1.000	A	A	B
64	L4	Aroclor-1221 (5) #2	5.65	1.000	A	A	B
65	L5	Aroclor-1232 (1) #2	4.97	1.000	A	A	B
66	L5	Aroclor-1232 (2) #2	5.56	1.000	A	A	B



67	L5	Aroclor-1232	(3)	#2	6.28	1.000	A	A	B
68	L5	Aroclor-1232	(4)	#2	6.50	1.000	A	A	B
69	L5	Aroclor-1232	(5)	#2	6.68	1.000	A	A	B
70	L6	Aroclor-1242	(1)	#2	5.56	1.000	A	A	B
71	L6	Aroclor-1242	(2)	#2	6.28	1.000	A	A	B
72	L6	Aroclor-1242	(3)	#2	6.50	1.000	A	A	B
73	L6	Aroclor-1242	(4)	#2	7.30	1.000	A	A	B
74	L6	Aroclor-1242	(5)	#2	8.06	1.000	A	A	B
75	L7	Aroclor-1248	(1)	#2	5.56	1.000	A	A	B
76	L7	Aroclor-1248	(2)	#2	6.27	1.000	A	A	B
77	L7	Aroclor-1248	(3)	#2	6.82	1.000	A	A	B
78	L7	Aroclor-1248	(4)	#2	7.30	1.000	A	A	B
79	L7	Aroclor-1248	(5)	#2	7.52	1.000	A	A	B
80	L7	Aroclor-1248	(6)	#2	8.06	1.000	A	A	B
81	L7	Aroclor-1248	(7)	#2	8.50	1.000	A	A	B
82	L8	Aroclor-1254	(1)	#2	8.05	1.000	A	A	B
83	L8	Aroclor-1254	(2)	#2	8.39	1.000	A	A	B
84	L8	Aroclor-1254	(3)	#2	9.06	1.000	A	A	B
85	L8	Aroclor-1254	(4)	#2	9.28	1.000	A	A	B
86	L8	Aroclor-1254	(5)	#2	9.71	1.000	A	A	B
87	L8	Aroclor-1254	(6)	#2	10.40	1.000	A	A	B
88	L8	Aroclor-1254	(7)	#2	10.77	1.000	A	A	B
89	L9	Aroclor-1260	(1)	#2	10.77	1.000	A	A	B
90	L9	Aroclor-1260	(2)	#2	10.94	1.000	A	A	B
91	L9	Aroclor-1260	(3)	#2	11.55	1.000	A	A	B
92	L9	Aroclor-1260	(4)	#2	12.05	1.000	A	A	B
93	L9	Aroclor-1260	(5)	#2	12.88	1.000	A	A	B
94	L1	Aroclor-1262	(1)	#2	10.04	1.000	A	A	B
95	L1	Aroclor-1262	(2)	#2	10.94	1.000	A	A	B
96	L1	Aroclor-1262	(3)	#2	11.55	1.000	A	A	B
97	L1	Aroclor-1262	(4)	#2	12.05	1.000	A	A	B
98	L1	Aroclor-1262	(5)	#2	12.87	1.000	A	A	B
99	L2	Aroclor-1268	(1)	#2	12.86	1.000	A	A	B
100	L2	Aroclor-1268	(2)	#2	12.98	1.000	A	A	B
101	L2	Aroclor-1268	(3)	#2	13.65	1.000	A	A	B
102	L2	Aroclor-1268	(4)	#2	14.44	1.000	A	A	B
103	L2	Aroclor-1268	(5)	#2	15.54	1.000	A	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin  
A/H = Area or Height  
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

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80820210.M Sat Feb 12 08:36:39 2022 SS



Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820210.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Fri Feb 11 12:03:41 2022

Calibration Files

50 =6B58406.D 250 =6B58405.D 500 =6B58404.D  
 1000 =6B58403.D 2000 =6B58402.D 3000 =6B58401.D

Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S TCMX		1.250	1.205	1.295	1.378	1.406	1.307	E7 6.47
2) S Decachlorobiphenyl		1.425	1.303	1.238	1.247	1.240	1.291	E7 6.20
3) L3 Aroclor-1016 (1)	3.018	2.958	2.706	2.491	2.429	2.646	2.708	E5 8.86
4) L3 Aroclor-1016 (2)	5.323	5.315	4.891	4.556	4.478	4.413	4.829	E5 8.56
5) L3 Aroclor-1016 (3)	1.209	1.380	1.289	1.112	1.123	1.121	1.206	E6 9.09
6) L3 Aroclor-1016 (4)	4.386	4.814	4.445	4.171	4.165	4.139	4.353	E5 5.96
7) L3 Aroclor-1016 (5)	4.648	4.689	4.380	4.113	4.097	4.081	4.335	E5 6.49
8) L4 Aroclor-1221 (1)				6.949		7.377	7.163	E4 4.23
9) L4 Aroclor-1221 (2)				1.275		1.284	1.279	E5 0.54
10) L4 Aroclor-1221 (3)				4.171		4.053	4.112	E5 2.02
11) L4 Aroclor-1221 (4)				4.684		4.552	4.618	E4 2.02
12) L4 Aroclor-1221 (5)				5.177		4.699	4.938	E4 6.84
13) L5 Aroclor-1232 (1)				3.214		3.066	3.140	E5 3.33
14) L5 Aroclor-1232 (2)				2.238		2.151	2.195	E5 2.80
15) L5 Aroclor-1232 (3)				5.468		4.988	5.228	E5 6.49
16) L5 Aroclor-1232 (4)				1.880		1.858	1.869	E5 0.83
17) L5 Aroclor-1232 (5)				1.733		1.705	1.719	E5 1.13
18) L6 Aroclor-1242 (1)				3.848		3.705	3.777	E5 2.67
19) L6 Aroclor-1242 (2)				1.016		0.935	0.976	E6 5.83
20) L6 Aroclor-1242 (3)				3.486		3.447	3.467	E5 0.79
21) L6 Aroclor-1242 (4)				3.521		3.497	3.509	E5 0.48
22) L6 Aroclor-1242 (5)				2.952		3.010	2.981	E5 1.39
23) L7 Aroclor-1248 (1)				1.823		1.702	1.763	E5 4.85
24) L7 Aroclor-1248 (2)				6.247		6.138	6.192	E5 1.25
25) L7 Aroclor-1248 (3)				6.081		5.611	5.846	E5 5.69
26) L7 Aroclor-1248 (4)				5.543		5.493	5.518	E5 0.64
27) L7 Aroclor-1248 (5)				2.981		3.018	2.999	E5 0.87
28) L7 Aroclor-1248 (6)				4.680		5.083	4.882	E5 5.84
29) L7 Aroclor-1248 (7)				8.591		8.633	8.612	E5 0.35
30) L8 Aroclor-1254 (1)				4.768		4.747	4.758	E5 0.31
31) L8 Aroclor-1254 (2)				8.650		8.616	8.633	E5 0.28
32) L8 Aroclor-1254 (3)				4.631		4.768	4.700	E5 2.06
33) L8 Aroclor-1254 (4)				8.933		9.164	9.048	E5 1.81
34) L8 Aroclor-1254 (5)				6.447		6.562	6.504	E5 1.25
35) L8 Aroclor-1254 (6)				4.653		5.009	4.831	E5 5.21
36) L8 Aroclor-1254 (7)				8.003		8.393	8.198	E5 3.37
37) L9 Aroclor-1260 (1)	1.087	1.116	1.066	1.026	1.061	1.062	1.070	E6 2.81
38) L9 Aroclor-1260 (2)	6.364	6.593	6.277	5.933	6.059	6.011	6.206	E5 4.04
39) L9 Aroclor-1260 (3)	5.555	6.382	6.364	6.003	6.195	6.266	6.128	E5 5.10
40) L9 Aroclor-1260 (4)	1.511	1.609	1.550	1.532	1.571	1.569	1.557	E6 2.20
41) L9 Aroclor-1260 (5)	1.563	1.568	1.568	1.468	1.488	1.485	1.523	E6 3.13
42) L1 Aroclor-1262 (1)				6.423		6.762	6.592	E5 3.64
43) L1 Aroclor-1262 (2)				8.226		8.747	8.487	E5 4.34
44) L1 Aroclor-1262 (3)				7.209		7.529	7.369	E5 3.07
45) L1 Aroclor-1262 (4)				1.769		1.823	1.796	E6 2.14
46) L1 Aroclor-1262 (5)				1.856		1.971	1.913	E6 4.24
47) L2 Aroclor-1268 (1)				1.912		2.186	2.049	E6 9.46
48) L2 Aroclor-1268 (2)				1.891		1.963	1.927	E6 2.64
49) L2 Aroclor-1268 (3)				1.638		1.725	1.681	E6 3.62
50) L2 Aroclor-1268 (4)				6.641		7.036	6.838	E5 4.09
51) L2 Aroclor-1268 (5)				5.466		5.501	5.483	E6 0.45

Signal #2 Calibration Files

50 =6B58406.D 250 =6B58405.D 500 =6B58404.D  
 1000 =6B58403.D 2000 =6B58402.D 3000 =6B58401.D

Compound	50	250	500	1000	2000	3000	Avg	%RSD
1) S TCMX		6.650	6.316	6.234	6.555	6.676	6.486	E6 3.08
2) S Decachlorobiphenyl		7.176	6.433	6.205	6.362	6.448	6.525	E6 5.77
3) L3 Aroclor-1016 (1)	1.250	1.190	1.109	1.034	1.025	1.011	1.103	E5 8.95

(#) = Out of Range  
 80820210.M

Sat Feb 12 08:36:41 2022 SS

Page 1

9  
9.7.

Response Factor Report GCECD-6

Method : G:\HPCHEM\GCECD6\METHODS\80820210.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Fri Feb 11 12:03:41 2022

Calibration Files

50 =6B58406.D 250 =6B58405.D 500 =6B58404.D  
 1000 =6B58403.D 2000 =6B58402.D 3000 =6B58401.D

Compound	50	250	500	1000	2000	3000	Avg	%RSD
4) L3 Aroclor-1016 (2)	2.387	2.309	2.232	2.077	2.075	2.066	2.191 E5	6.32
5) L3 Aroclor-1016 (3)	5.619	5.229	4.845	4.627	4.760	4.780	4.977 E5	7.52
6) L3 Aroclor-1016 (4)	2.184	2.097	1.933	1.824	1.843	1.844	1.954 E5	7.77
7) L3 Aroclor-1016 (5)	1.491	1.514	1.409	1.321	1.365	1.378	1.413 E5	5.34
8) L4 Aroclor-1221 (1)				3.485		3.580	3.533 E4	1.90
9) L4 Aroclor-1221 (2)				6.149		6.011	6.080 E4	1.60
10) L4 Aroclor-1221 (3)				1.545		1.521	1.533 E5	1.09
11) L4 Aroclor-1221 (4)				3.076		2.842	2.959 E4	5.60
12) L4 Aroclor-1221 (5)				1.855		1.794	1.825 E4	2.35
13) L5 Aroclor-1232 (1)				1.263		1.234	1.248 E5	1.60
14) L5 Aroclor-1232 (2)				9.840		9.519	9.680 E4	2.34
15) L5 Aroclor-1232 (3)				2.089		2.107	2.098 E5	0.60
16) L5 Aroclor-1232 (4)				8.497		8.350	8.424 E4	1.24
17) L5 Aroclor-1232 (5)				6.518		6.414	6.466 E4	1.13
18) L6 Aroclor-1242 (1)				1.805		1.765	1.785 E5	1.58
19) L6 Aroclor-1242 (2)				3.900		4.012	3.956 E5	2.00
20) L6 Aroclor-1242 (3)				1.560		1.561	1.560 E5	0.03
21) L6 Aroclor-1242 (4)				1.179		1.181	1.180 E5	0.09
22) L6 Aroclor-1242 (5)				1.434		1.474	1.454 E5	1.92
23) L7 Aroclor-1248 (1)				8.268		7.839	8.054 E4	3.77
24) L7 Aroclor-1248 (2)				2.451		2.413	2.432 E5	1.11
25) L7 Aroclor-1248 (3)				1.402		1.363	1.382 E5	2.01
26) L7 Aroclor-1248 (4)				1.908		1.909	1.909 E5	0.03
27) L7 Aroclor-1248 (5)				2.159		2.155	2.157 E5	0.11
28) L7 Aroclor-1248 (6)				2.624		2.645	2.634 E5	0.55
29) L7 Aroclor-1248 (7)				2.602		2.649	2.626 E5	1.27
30) L8 Aroclor-1254 (1)				2.125		2.158	2.141 E5	1.10
31) L8 Aroclor-1254 (2)				2.366		2.403	2.384 E5	1.11
32) L8 Aroclor-1254 (3)				1.969		2.029	1.999 E5	2.12
33) L8 Aroclor-1254 (4)				4.164		4.310	4.237 E5	2.43
34) L8 Aroclor-1254 (5)				2.882		2.935	2.908 E5	1.30
35) L8 Aroclor-1254 (6)				3.166		3.253	3.210 E5	1.92
36) L8 Aroclor-1254 (7)				3.806		3.861	3.833 E5	1.01
37) L9 Aroclor-1260 (1)	5.183	5.702	5.059	4.797	4.918	4.984	5.107 E5	6.25
38) L9 Aroclor-1260 (2)	2.609	3.056	2.813	2.676	2.729	2.753	2.773 E5	5.59
39) L9 Aroclor-1260 (3)	3.133	3.111	2.944	2.861	3.022	3.040	3.018 E5	3.39
40) L9 Aroclor-1260 (4)	7.359	7.488	7.209	7.156	7.514	7.621	7.391 E5	2.47
41) L9 Aroclor-1260 (5)	7.655	7.639	7.232	6.807	7.034	7.185	7.259 E5	4.62
42) L1 Aroclor-1262 (1)				2.479		2.638	2.558 E5	4.40
43) L1 Aroclor-1262 (2)				3.830		3.994	3.912 E5	2.97
44) L1 Aroclor-1262 (3)				3.283		3.613	3.448 E5	6.77
45) L1 Aroclor-1262 (4)				7.670		8.412	8.041 E5	6.52
46) L1 Aroclor-1262 (5)				8.875		9.588	9.232 E5	5.46
47) L2 Aroclor-1268 (1)				0.979		1.016	0.998 E6	2.67
48) L2 Aroclor-1268 (2)				0.940		1.005	0.972 E6	4.70
49) L2 Aroclor-1268 (3)				8.207		8.776	8.492 E5	4.75
50) L2 Aroclor-1268 (4)				3.548		3.613	3.580 E5	1.28
51) L2 Aroclor-1268 (5)				2.843		2.985	2.914 E6	3.46

9  
9.7.

# CALIBRATION VERIFICATION SUMMARY

Client: One Time Client  
 Work Order: **2090813**

Lab Sample ID (X500): S2I2402-CCV1(1)      Init. Calib. Date(s): 02/10/2022  
 File ID: 6B66298.D      Date Analyzed: 09/23/2022 12:32  
 PCBs: Column 1      Matrix: Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	565650	913166	61.40 *
Aroclor-1016 (1)	04.22	04.12	04.32	270802	474910	75.40
Aroclor-1016 (2)	04.62	04.52	04.72	482939	749704	55.20
Aroclor-1016 (3)	05.21	05.11	05.31	1205729	2011738	66.80
Aroclor-1016 (4)	05.40	05.30	05.50	435325	685024	57.40
Aroclor-1016 (5)	05.97	05.87	06.07	433454	644452	48.70
Average-Aroclor-1260	-----	-----	-----	1076573	1846870	71.60 *
Aroclor-1260 (1)	08.96	08.86	09.06	1069571	1732811	62.00
Aroclor-1260 (2)	09.15	09.05	09.25	620585	1240694	99.90
Aroclor-1260 (3)	09.62	09.52	09.72	612777	1012866	65.30
Aroclor-1260 (4)	10.22	10.12	10.32	1556862	2923036	87.80
Aroclor-1260 (5)	10.79	10.69	10.89	1523069	2324946	52.60
Tetrachloro-m-xylene	03.88	03.78	03.98	13724810	24556240	78.90 *
Decachlorobiphenyl	13.03	12.93	13.13	15099560	18267810	21.00 *

\* - Outside of QC limits

F-VII



## CALIBRATION VERIFICATION SUMMARY

Client: One Time Client  
 Work Order: 2090813

Lab Sample ID (X500): S2I2402-CCV1(2)      Init. Calib. Date(s): 02/10/2022  
 File ID: 6B66298.D      Date Analyzed: 09/23/2022 12:32  
 PCBs: Column 2      Matrix: Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	232757	318650	36.90 *
Aroclor-1016 (1) [2C]	04.93	04.83	05.03	110317	144312	30.80
Aroclor-1016 (2) [2C]	05.51	05.41	05.61	219090	285210	30.20
Aroclor-1016 (3) [2C]	06.22	06.12	06.32	497672	696998	40.10
Aroclor-1016 (4) [2C]	06.45	06.35	06.55	195429	265811	36.00
Aroclor-1016 (5) [2C]	07.23	07.13	07.33	141279	200920	42.20
Average-Aroclor-1260 [2C]	-----	-----	-----	510969	820655	60.60 *
Aroclor-1260 (1) [2C]	10.69	10.59	10.79	510718	782487	53.20
Aroclor-1260 (2) [2C]	10.86	10.76	10.96	277294	571295	106.00
Aroclor-1260 (3) [2C]	11.46	11.36	11.56	301840	536890	77.90
Aroclor-1260 (4) [2C]	11.96	11.86	12.06	739116	1168831	58.10
Aroclor-1260 (5) [2C]	12.78	12.68	12.88	725875	1043773	43.80
Tetrachloro-m-xylene [2C]	04.33	04.23	04.43	6887979	10809190	56.90 *
Decachlorobiphenyl [2C]	16.36	16.26	16.46	7501772	7459814	0.60

\* - Outside of QC limits

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9.8.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66298.D\ECD1A.CH Vial: 96  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66298.D\ECD2B.CH  
 Acq On : 23 Sep 2022 12:32 Operator: RL  
 Sample : SEQ-CCV Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 23 12:58 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.88	4.33	1227.8E6	540.5E6	55.180	56.888
Spiked Amount	50.000	Range	40 - 149	Recovery =	110.36%	113.78%
2) S Decachlorobiphen	13.03	16.36	913.4E6	373.0E6	40.933m	40.084
Spiked Amount	50.000	Range	52 - 136	Recovery =	81.87%	80.17%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.22	4.93	237.5E6	72155790	579.306	530.186
4) L3 Aroclor-1016 (2)	4.62	5.51	374.9E6	142.6E6	523.374	518.423
5) L3 Aroclor-1016 (3)	5.21	6.22	1005.9E6	348.5E6	560.075	525.832
6) L3 Aroclor-1016 (4)	5.40	6.45	342.5E6	132.9E6	505.435	506.247
7) L3 Aroclor-1016 (5)	5.97	7.23	322.2E6	100.5E6	472.176	514.171
Sum Aroclor-1016 (1)			2282.9E6	796.6E6	2640.366	2594.859
Average Aroclor-1016 (1)					528.073	518.972
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
37) L9 Aroclor-1260 (1)	8.96	10.69	866.4E6	391.2E6	455.159	507.785
38) L9 Aroclor-1260 (2)	9.15	10.86	620.3E6	285.6E6	420.919	500.912
39) L9 Aroclor-1260 (3)	9.62	11.46	506.4E6	268.4E6	453.799	556.519
40) L9 Aroclor-1260 (4)	10.22	11.96	1461.5E6	584.4E6	468.901	485.588
41) L9 Aroclor-1260 (5)	10.79	12.78	1162.5E6	521.9E6	423.441	477.256
Sum Aroclor-1260 (1)			4617.2E6	2051.6E6	2222.219	2528.061
Average Aroclor-1260 (1)					444.444	505.612
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

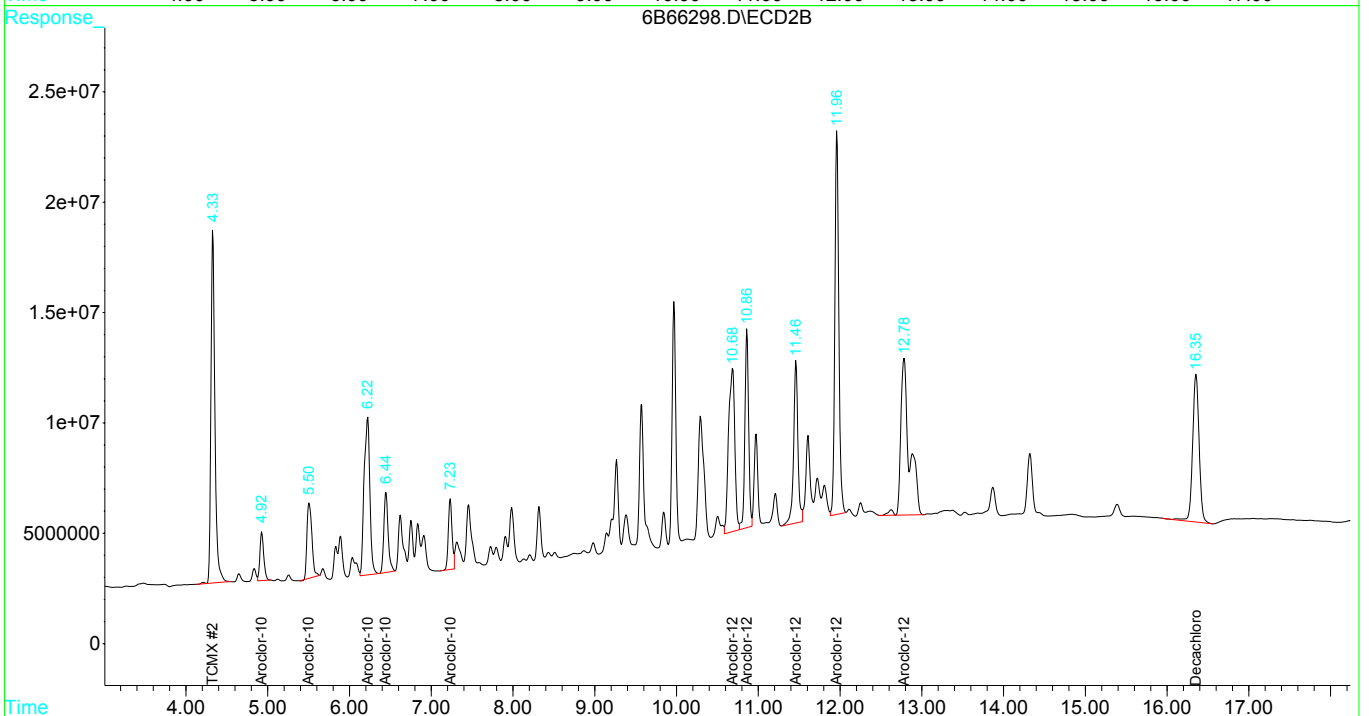
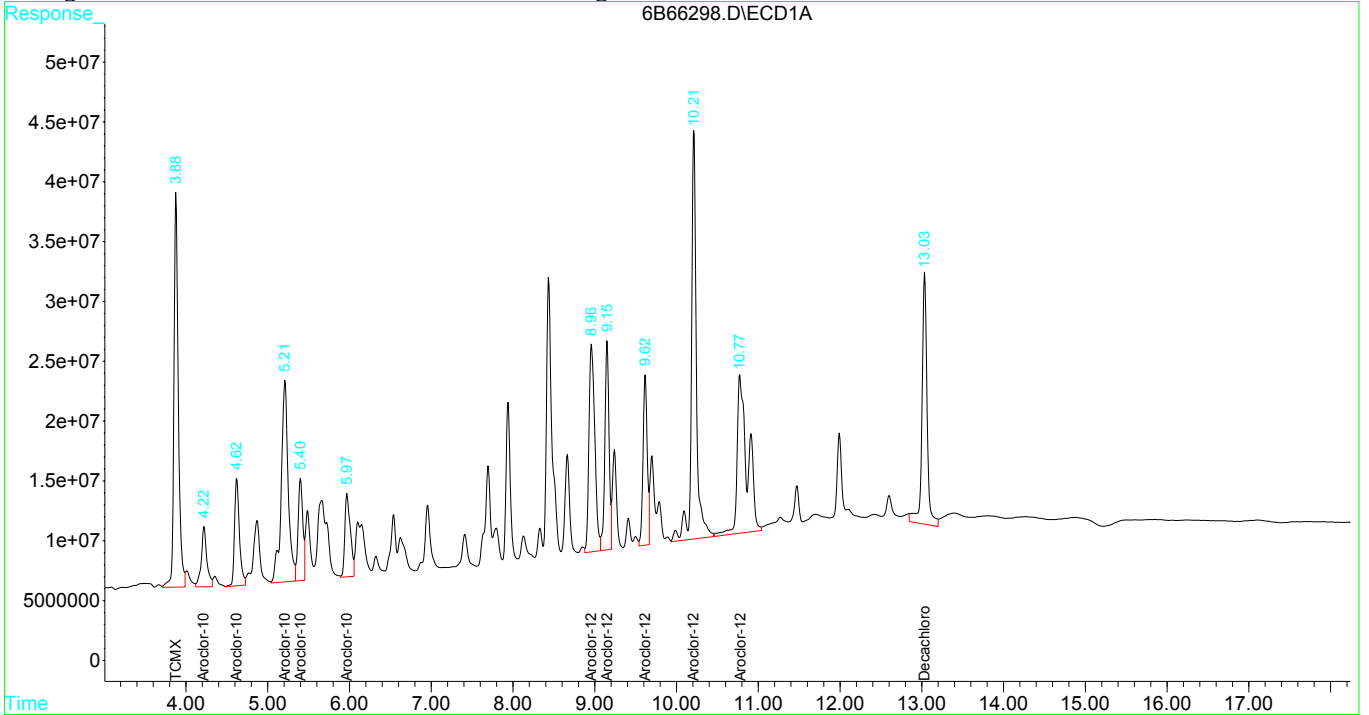
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 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66298.D 80820906.M Sat Sep 24 11:50:48 2022 SS

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66298.D\ECD1A.CH Vial: 96  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66298.D\ECD2B.CH  
Acq On : 23 Sep 2022 12:32 Operator: RL  
Sample : SEQ-CCV Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 23 12:58 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info: 30M x 0.53mm x 0.42um





# CALIBRATION VERIFICATION SUMMARY

Client: One Time Client  
 Work Order: **2090813**

Lab Sample ID (X500): S2I2402-CCV2(1)      Init. Calib. Date(s): 02/10/2022  
 File ID: 6B66318.D      Date Analyzed: 09/23/2022 20:08  
 PCBs: Column 1      Matrix: Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	565650	909278	60.70 *
Aroclor-1016 (1)	04.21	04.11	04.31	270802	418847	54.70
Aroclor-1016 (2)	04.60	04.50	04.70	482939	764777	58.40
Aroclor-1016 (3)	05.19	05.09	05.29	1205729	1911759	58.60
Aroclor-1016 (4)	05.38	05.28	05.48	435325	645373	48.30
Aroclor-1016 (5)	05.95	05.85	06.05	433454	805634	85.90
Average-Aroclor-1260	-----	-----	-----	1076573	2240178	108.00*
Aroclor-1260 (1)	08.95	08.85	09.05	1069571	2063908	93.00
Aroclor-1260 (2)	09.13	09.03	09.23	620585	1625335	162.00
Aroclor-1260 (3)	09.60	09.50	09.70	612777	1218927	98.90
Aroclor-1260 (4)	10.20	10.10	10.30	1556862	3573152	130.00
Aroclor-1260 (5)	10.78	10.68	10.88	1523069	2719566	78.60
Tetrachloro-m-xylene	03.86	03.76	03.96	13724810	26061780	89.90 *
Decachlorobiphenyl	13.01	12.91	13.11	15099560	18958960	25.60 *

\* - Outside of QC limits

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9.8.

# CALIBRATION VERIFICATION SUMMARY

**Client:**        \_One Time Client  
**Work Order:**   2090813

Lab Sample ID (X500):        S2I2402-CCV2(2)                            Init. Calib. Date(s):   02/10/2022  
 File ID:                        6B66318.D    Date Analyzed:        09/23/2022 20:08  
 PCBs                            Column 2   Matrix:                 Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	232757	347473	49.30 *
Aroclor-1016 (1) [2C]	04.92	04.82	05.02	110317	140559	27.40
Aroclor-1016 (2) [2C]	05.50	05.40	05.60	219090	327151	49.30
Aroclor-1016 (3) [2C]	06.22	06.12	06.32	497672	771256	55.00
Aroclor-1016 (4) [2C]	06.44	06.34	06.54	195429	305008	56.10
Aroclor-1016 (5) [2C]	07.23	07.13	07.33	141279	193393	36.90
Average-Aroclor-1260 [2C]	-----	-----	-----	510969	915488	79.20 *
Aroclor-1260 (1) [2C]	10.68	10.58	10.78	510718	919825	80.10
Aroclor-1260 (2) [2C]	10.86	10.76	10.96	277294	657812	137.00
Aroclor-1260 (3) [2C]	11.46	11.36	11.56	301840	560198	85.60
Aroclor-1260 (4) [2C]	11.96	11.86	12.06	739116	1270459	71.90
Aroclor-1260 (5) [2C]	12.78	12.68	12.88	725875	1169146	61.10
Tetrachloro-m-xylene [2C]	04.32	04.22	04.42	6887979	11222230	62.90 *
Decachlorobiphenyl [2C]	16.35	16.25	16.45	7501772	8362832	11.50

\* - Outside of QC limits

F-VII



9.8.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66318.D\ECD1A.CH Vial: 96  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66318.D\ECD2B.CH  
 Acq On : 23 Sep 2022 20:08 Operator: RL  
 Sample : SEQ-CCV Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 24 11:22 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.86	4.32	1303.1E6	561.1E6	58.563m	59.062m
Spiked Amount	50.000	Range	40 - 149	Recovery =	117.13%	118.12%
2) S Decachlorobiphen	13.01	16.35	947.9E6	418.1E6	42.481	44.937
Spiked Amount	50.000	Range	52 - 136	Recovery =	84.96%	89.87%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.21	4.92	209.4E6	70279484	510.919m	516.399m
4) L3 Aroclor-1016 (2)	4.60	5.50	382.4E6	163.6E6	533.896m	594.660
5) L3 Aroclor-1016 (3)	5.19	6.22	955.9E6	385.6E6	532.240m	581.854
6) L3 Aroclor-1016 (4)	5.38	6.44	322.7E6	152.5E6	476.179m	580.899
7) L3 Aroclor-1016 (5)	5.95	7.23	402.8E6	96696614	590.271	494.910m
Sum Aroclor-1016 (1)			2273.2E6	868.7E6	2643.506	2768.722
Average Aroclor-1016 (1)					528.701	553.744
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
37) L9 Aroclor-1260 (1)	8.95	10.68	1032.0E6	459.9E6	542.128	596.909
38) L9 Aroclor-1260 (2)	9.13	10.86	812.7E6	328.9E6	551.412	576.771
39) L9 Aroclor-1260 (3)	9.60	11.46	609.5E6	280.1E6	546.122	580.680
40) L9 Aroclor-1260 (4)	10.20	11.96	1786.6E6	635.2E6	573.190	527.810
41) L9 Aroclor-1260 (5)	10.78	12.78	1359.8E6	584.6E6	495.313	534.581
Sum Aroclor-1260 (1)			5600.4E6	2288.7E6	2708.165	2816.750
Average Aroclor-1260 (1)					541.633	563.350
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

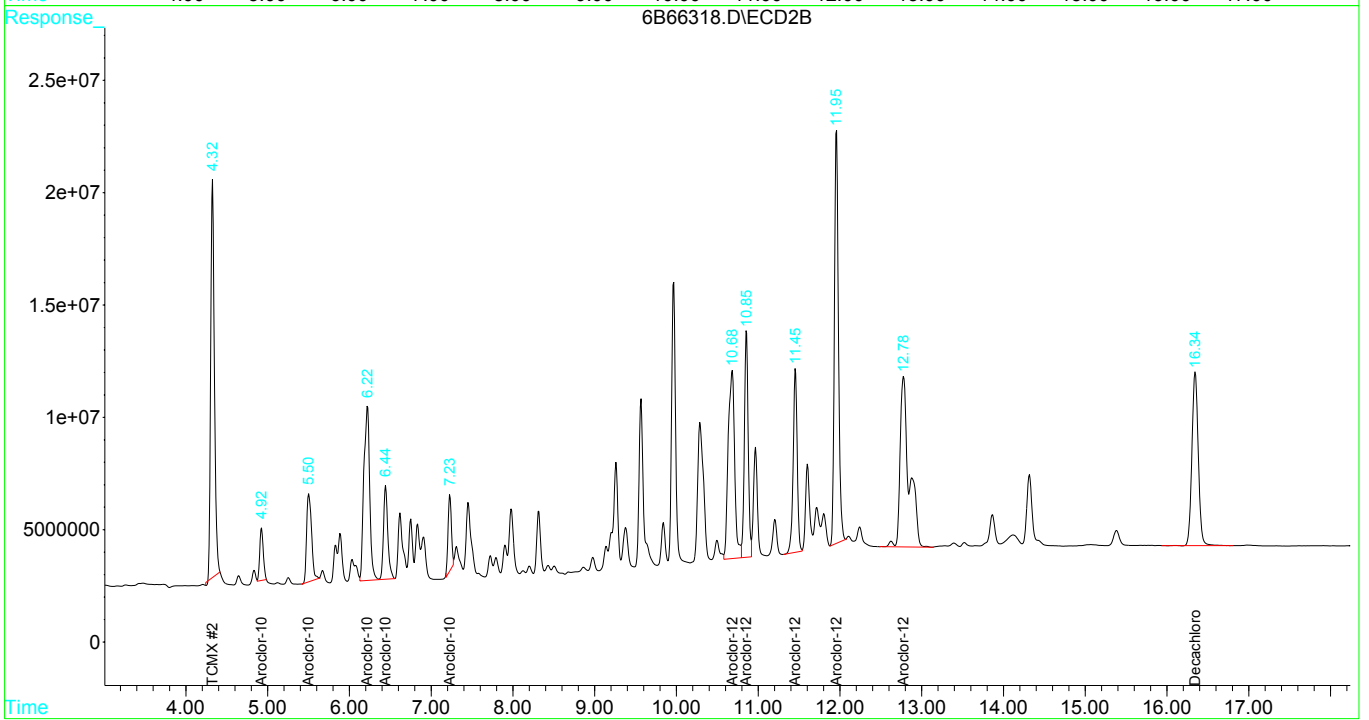
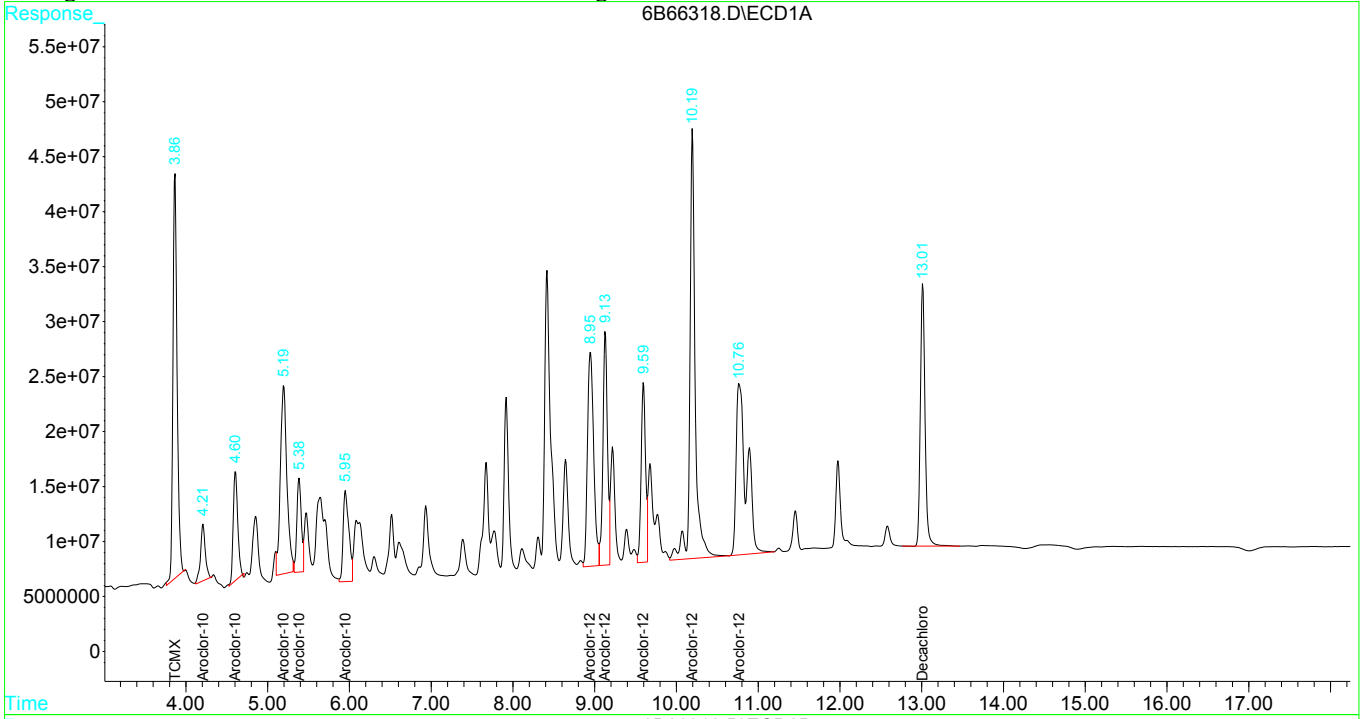
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66318.D 80820906.M Sat Sep 24 11:51:30 2022 SS

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220923\6B66318.D\ECD1A.CH Vial: 96  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220923\6B66318.D\ECD2B.CH  
Acq On : 23 Sep 2022 20:08 Operator: RL  
Sample : SEQ-CCV Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 24 11:22 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um



# CALIBRATION VERIFICATION SUMMARY

Client: One Time Client  
 Work Order: **2090813**

Lab Sample ID (X500): S2I2601-CCV1(1)      Init. Calib. Date(s): 02/10/2022  
 File ID: 6B66398.D                              Date Analyzed: 09/25/2022 10:34  
 PCBs: Column 1                                    Matrix: Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	565650	968037	71.10 *
Aroclor-1016 (1)	04.22	04.12	04.32	270802	469470	73.40
Aroclor-1016 (2)	04.62	04.52	04.72	482939	851454	76.30
Aroclor-1016 (3)	05.22	05.12	05.32	1205729	2096622	73.90
Aroclor-1016 (4)	05.40	05.30	05.50	435325	693426	59.30
Aroclor-1016 (5)	05.97	05.87	06.07	433454	729212	68.20
Average-Aroclor-1260	-----	-----	-----	1076573	1938004	80.00 *
Aroclor-1260 (1)	08.97	08.87	09.07	1069571	1690239	58.00
Aroclor-1260 (2)	09.15	09.05	09.25	620585	1380520	122.00
Aroclor-1260 (3)	09.62	09.52	09.72	612777	1073814	75.20
Aroclor-1260 (4)	10.22	10.12	10.32	1556862	3114650	100.00
Aroclor-1260 (5)	10.79	10.69	10.89	1523069	2430800	59.60
Tetrachloro-m-xylene	03.88	03.78	03.98	13724810	25048440	82.50 *
Decachlorobiphenyl	13.03	12.93	13.13	15099560	17921330	18.70

\* - Outside of QC limits

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9.8.

# CALIBRATION VERIFICATION SUMMARY

**Client:**        \_One Time Client  
**Work Order:**   2090813

Lab Sample ID (X500):        S2I2601-CCV1(2)                            Init. Calib. Date(s):   02/10/2022  
 File ID:                        6B66398.D    Date Analyzed:        09/25/2022 10:34  
 PCBs                            Column 2   Matrix:                 Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	232757	302289	29.90 *
Aroclor-1016 (1) [2C]	04.93	04.83	05.03	110317	139879	26.80
Aroclor-1016 (2) [2C]	05.51	05.41	05.61	219090	278704	27.20
Aroclor-1016 (3) [2C]	06.22	06.12	06.32	497672	628631	26.30
Aroclor-1016 (4) [2C]	06.44	06.34	06.54	195429	259294	32.70
Aroclor-1016 (5) [2C]	07.23	07.13	07.33	141279	204934	45.10
Average-Aroclor-1260 [2C]	-----	-----	-----	510969	797528	56.10 *
Aroclor-1260 (1) [2C]	10.69	10.59	10.79	510718	781766	53.10
Aroclor-1260 (2) [2C]	10.86	10.76	10.96	277294	583926	111.00
Aroclor-1260 (3) [2C]	11.46	11.36	11.56	301840	475469	57.50
Aroclor-1260 (4) [2C]	11.96	11.86	12.06	739116	1115776	51.00
Aroclor-1260 (5) [2C]	12.78	12.68	12.88	725875	1030702	42.00
Tetrachloro-m-xylene [2C]	04.33	04.23	04.43	6887979	10254640	48.90 *
Decachlorobiphenyl [2C]	16.35	16.25	16.45	7501772	7608984	1.40

\* - Outside of QC limits

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9.8.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220925\6B66398.D\ECD1A.CH Vial: 96  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220925\6B66398.D\ECD2B.CH  
 Acq On : 25 Sep 2022 10:34 Operator: RL  
 Sample : SEQ-CCV Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 25 11:06 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.88	4.33	1252.4E6	512.7E6	56.286	53.970
Spiked Amount	50.000	Range	40 - 149	Recovery	= 112.57%	107.94%
2) S Decachlorobiphen	13.03	16.35	896.1E6	380.4E6	40.156m	40.886
Spiked Amount	50.000	Range	52 - 136	Recovery	= 80.31%	81.77%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.22	4.93	234.7E6	69939477	572.670m	513.901
4) L3 Aroclor-1016 (2)	4.62	5.51	425.7E6	139.4E6	594.407	506.598
5) L3 Aroclor-1016 (3)	5.22	6.22	1048.3E6	314.3E6	583.707	474.255
6) L3 Aroclor-1016 (4)	5.40	6.44	346.7E6	129.6E6	511.634	493.835
7) L3 Aroclor-1016 (5)	5.97	7.23	364.6E6	102.5E6	534.278	524.445
Sum Aroclor-1016 (1)			2420.1E6	755.7E6	2796.696	2513.034
Average Aroclor-1016 (1)					559.339	502.607
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
37) L9 Aroclor-1260 (1)	8.97f	10.69	845.1E6	390.9E6	443.976	507.317
38) L9 Aroclor-1260 (2)	9.15	10.86	690.3E6	292.0E6	468.356	511.987
39) L9 Aroclor-1260 (3)	9.62	11.46	536.9E6	237.7E6	481.106	492.852
40) L9 Aroclor-1260 (4)	10.22	11.96	1557.3E6	557.9E6	499.639	463.547
41) L9 Aroclor-1260 (5)	10.79	12.78	1215.4E6	515.4E6	442.720	471.279
Sum Aroclor-1260 (1)			4845.0E6	1993.8E6	2335.797	2446.982
Average Aroclor-1260 (1)					467.159	489.396
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

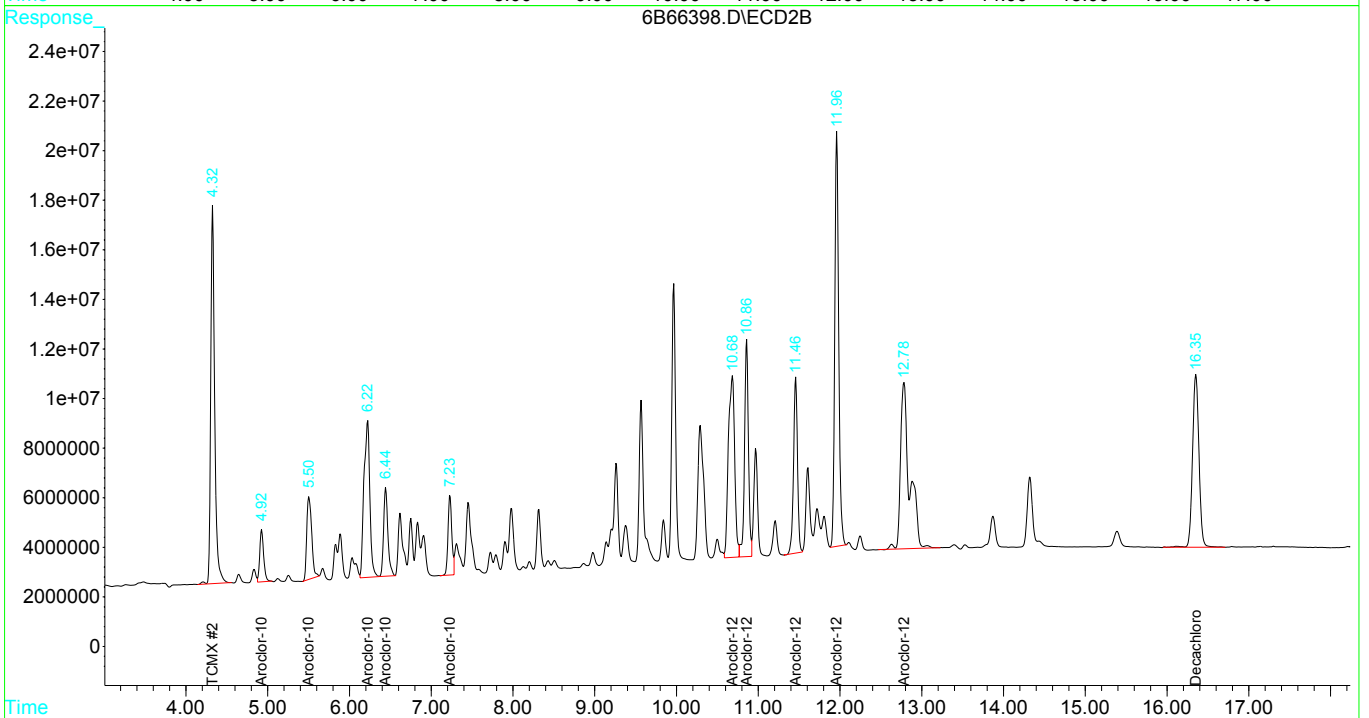
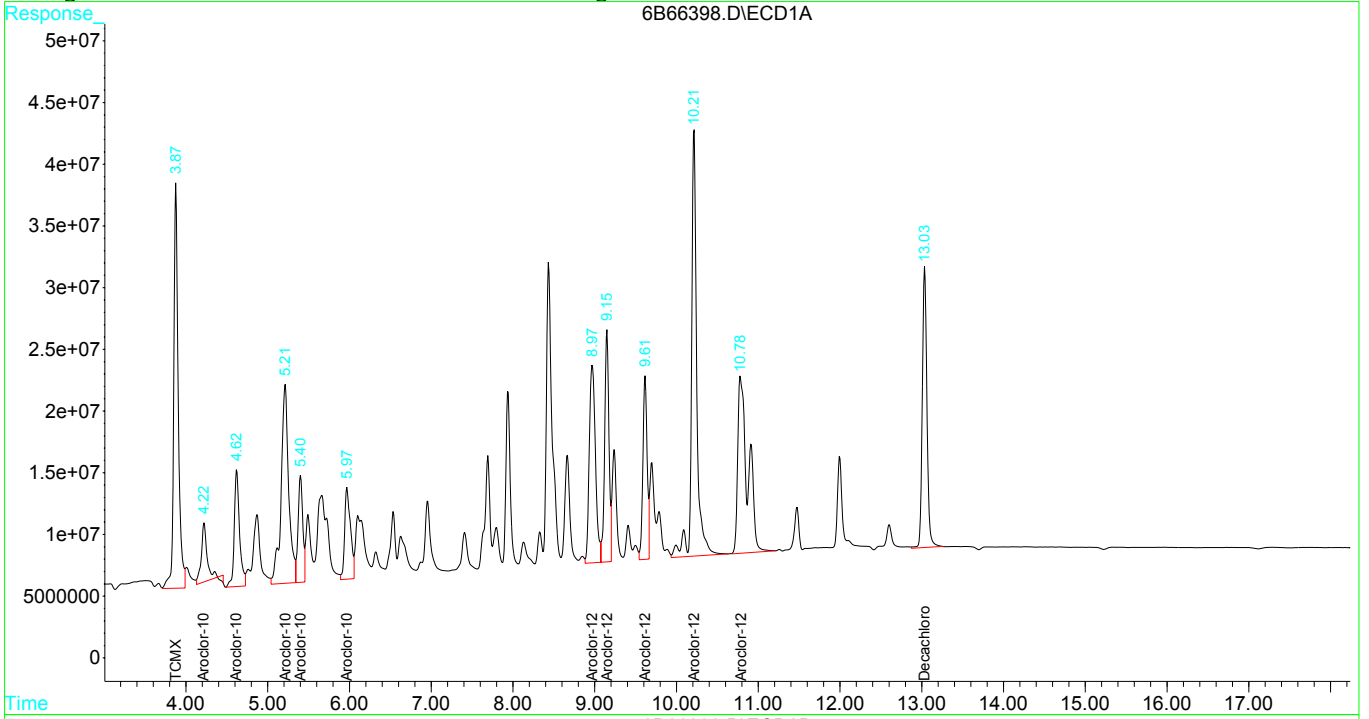
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66398.D 80820906.M Mon Sep 26 08:05:44 2022 SS

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220925\6B66398.D\ECD1A.CH Vial: 96  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220925\6B66398.D\ECD2B.CH  
Acq On : 25 Sep 2022 10:34 Operator: RL  
Sample : SEQ-CCV Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 25 11:06 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





# CALIBRATION VERIFICATION SUMMARY

Client: One Time Client  
 Work Order: **2090813**

Lab Sample ID (X500): S2I2601-CCV2(1)      Init. Calib. Date(s): 02/10/2022  
 File ID: 6B66419.D                              Date Analyzed: 09/25/2022 18:33  
 PCBs: Column 1                                      Matrix: Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	565650	923153	63.20 *
Aroclor-1016 (1)	04.21	04.11	04.31	270802	385372	42.30
Aroclor-1016 (2)	04.61	04.51	04.71	482939	851577	76.30
Aroclor-1016 (3)	05.21	05.11	05.31	1205729	2030518	68.40
Aroclor-1016 (4)	05.39	05.29	05.49	435325	646364	48.50
Aroclor-1016 (5)	05.96	05.86	06.06	433454	701936	61.90
Average-Aroclor-1260	-----	-----	-----	1076573	1871457	73.80 *
Aroclor-1260 (1)	08.96	08.86	09.06	1069571	1658605	55.10
Aroclor-1260 (2)	09.14	09.04	09.24	620585	1405713	127.00
Aroclor-1260 (3)	09.60	09.50	09.70	612777	1044519	70.50
Aroclor-1260 (4)	10.21	10.11	10.31	1556862	2931946	88.30
Aroclor-1260 (5)	10.79	10.69	10.89	1523069	2316502	52.10
Tetrachloro-m-xylene	03.87	03.77	03.97	13724810	26547200	93.40 *
Decachlorobiphenyl	13.02	12.92	13.12	15099560	18224280	20.70 *

\* - Outside of QC limits

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9.8.

## CALIBRATION VERIFICATION SUMMARY

**Client:**        \_One Time Client  
**Work Order:**   2090813

Lab Sample ID (X500):        S2I2601-CCV2(2)                            Init. Calib. Date(s):   02/10/2022  
 File ID:                        6B66419.D    Date Analyzed:        09/25/2022 18:33  
 PCBs                            Column 2   Matrix:                 Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	232757	294067	26.30 *
Aroclor-1016 (1) [2C]	04.93	04.83	05.03	110317	139439	26.40
Aroclor-1016 (2) [2C]	05.51	05.41	05.61	219090	271333	23.80
Aroclor-1016 (3) [2C]	06.23	06.13	06.33	497672	610528	22.70
Aroclor-1016 (4) [2C]	06.45	06.35	06.55	195429	250339	28.10
Aroclor-1016 (5) [2C]	07.23	07.13	07.33	141279	198694	40.60
Average-Aroclor-1260 [2C]	-----	-----	-----	510969	769546	50.60 *
Aroclor-1260 (1) [2C]	10.69	10.59	10.79	510718	731760	43.30
Aroclor-1260 (2) [2C]	10.86	10.76	10.96	277294	544950	96.50
Aroclor-1260 (3) [2C]	11.46	11.36	11.56	301840	473193	56.80
Aroclor-1260 (4) [2C]	11.96	11.86	12.06	739116	1118369	51.30
Aroclor-1260 (5) [2C]	12.78	12.68	12.88	725875	979457	34.90
Tetrachloro-m-xylene [2C]	04.33	04.23	04.43	6887979	10173200	47.70 *
Decachlorobiphenyl [2C]	16.35	16.25	16.45	7501772	7721722	2.90

\* - Outside of QC limits

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9.8.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220925\6B66419.D\ECD1A.CH Vial: 96  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220925\6B66419.D\ECD2B.CH  
 Acq On : 25 Sep 2022 18:33 Operator: RL  
 Sample : SEQ-CCV Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 26 8:00 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.87	4.33	1327.4E6	508.7E6	59.654	53.541
Spiked Amount	50.000	Range	40 - 149	Recovery	= 119.31%	107.08%
2) S Decachlorobiphen	13.02	16.35	911.2E6	386.1E6	40.835m	41.492m
Spiked Amount	50.000	Range	52 - 136	Recovery	= 81.67%	82.98%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.21	4.93	192.7E6	69719583	470.085m	512.285
4) L3 Aroclor-1016 (2)	4.61	5.51	425.8E6	135.7E6	594.493	493.199
5) L3 Aroclor-1016 (3)	5.21	6.23	1015.3E6	305.3E6	565.303	460.597
6) L3 Aroclor-1016 (4)	5.39	6.45	323.2E6	125.2E6	476.910	476.780
7) L3 Aroclor-1016 (5)	5.96	7.23	351.0E6	99347054	514.293	508.476
Sum Aroclor-1016 (1)			2307.9E6	735.2E6	2621.085	2451.337
Average Aroclor-1016 (1)					524.217	490.267
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
37) L9 Aroclor-1260 (1)	8.96f	10.69	829.3E6	365.9E6	435.667	474.867
38) L9 Aroclor-1260 (2)	9.14	10.86	702.9E6	272.5E6	476.903	477.813
39) L9 Aroclor-1260 (3)	9.60	11.46	522.3E6	236.6E6	467.981	490.493
40) L9 Aroclor-1260 (4)	10.21	11.96	1466.0E6	559.2E6	470.330	464.624
41) L9 Aroclor-1260 (5)	10.79	12.78	1158.3E6	489.7E6	421.904	447.848
Sum Aroclor-1260 (1)			4678.6E6	1923.9E6	2272.785	2355.645
Average Aroclor-1260 (1)					454.557	471.129
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66419.D 80820906.M Mon Sep 26 08:06:27 2022 SS

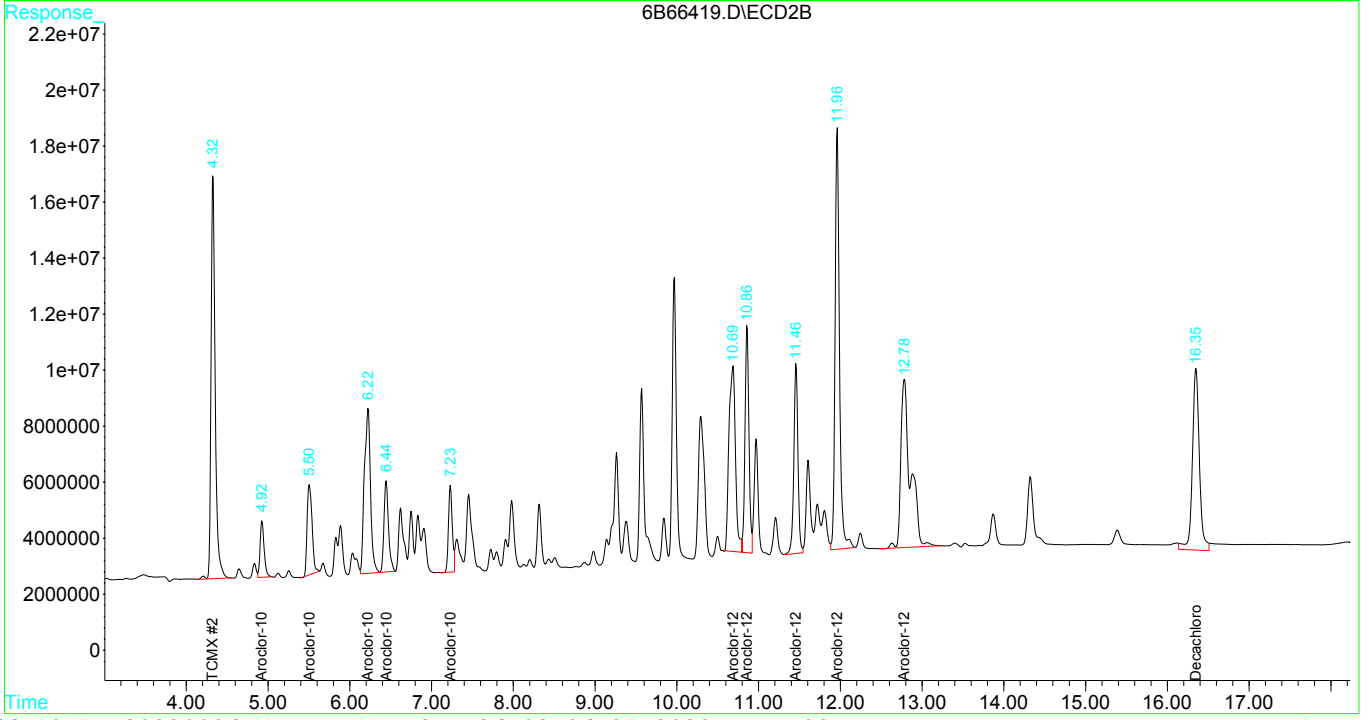
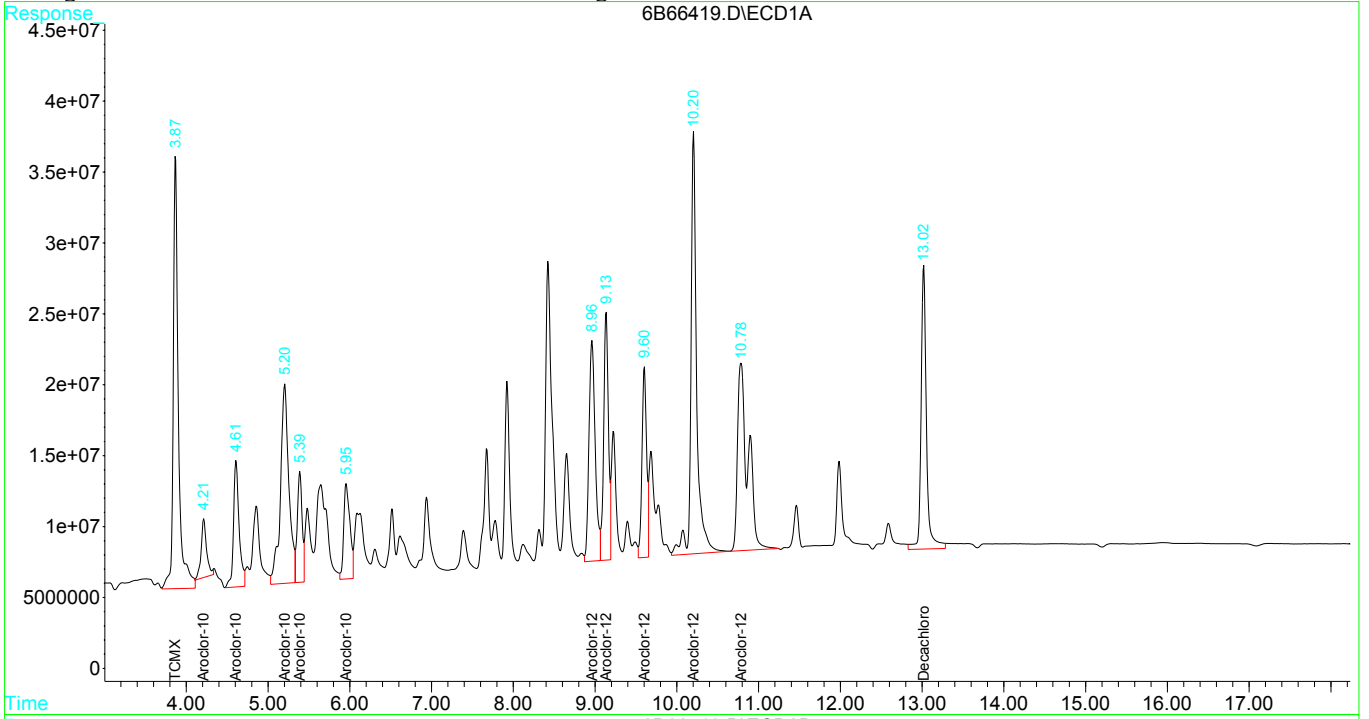


Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220925\6B66419.D\ECD1A.CH Vial: 96  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220925\6B66419.D\ECD2B.CH  
Acq On : 25 Sep 2022 18:33 Operator: RL  
Sample : SEQ-CCV Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 26 8:00 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info: 30M x 0.53mm x 0.42um



# CALIBRATION VERIFICATION SUMMARY

Client: One Time Client  
 Work Order: **2090813**

Lab Sample ID (X500): S2I2922-CCV1(1)      Init. Calib. Date(s): 02/10/2022  
 File ID: 6B66604.D      Date Analyzed: 09/29/2022 08:26  
 PCBs: Column 1      Matrix: Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	565650	888052	57.00 *
Aroclor-1016 (1)	04.21	04.11	04.31	270802	463285	71.10
Aroclor-1016 (2)	04.61	04.51	04.71	482939	818632	69.50
Aroclor-1016 (3)	05.20	05.10	05.30	1205729	1816804	50.70
Aroclor-1016 (4)	05.39	05.29	05.49	435325	673084	54.60
Aroclor-1016 (5)	05.96	05.86	06.06	433454	668455	54.20
Average-Aroclor-1260	-----	-----	-----	1076573	1886872	75.30 *
Aroclor-1260 (1)	08.94	08.84	09.04	1069571	1661529	55.30
Aroclor-1260 (2)	09.14	09.04	09.24	620585	1261633	103.00
Aroclor-1260 (3)	09.60	09.50	09.70	612777	989223	61.40
Aroclor-1260 (4)	10.20	10.10	10.30	1556862	2993280	92.30
Aroclor-1260 (5)	10.77	10.67	10.87	1523069	2528694	66.00
Tetrachloro-m-xylene	03.87	03.77	03.97	13724810	24461280	78.20 *
Decachlorobiphenyl	13.02	12.92	13.12	15099560	19183030	27.00 *

\* - Outside of QC limits

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9.8.

# CALIBRATION VERIFICATION SUMMARY

**Client:**        \_One Time Client  
**Work Order:**   2090813

Lab Sample ID (X500):        S2I2922-CCV1(2)                            Init. Calib. Date(s):   02/10/2022  
 File ID:                        6B66604.D    Date Analyzed:        09/29/2022 08:26  
 PCBs                            Column 2   Matrix:                 Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	232757	296087	27.20 *
Aroclor-1016 (1) [2C]	04.92	04.82	05.02	110317	132647	20.20
Aroclor-1016 (2) [2C]	05.50	05.40	05.60	219090	264213	20.60
Aroclor-1016 (3) [2C]	06.22	06.12	06.32	497672	640098	28.60
Aroclor-1016 (4) [2C]	06.44	06.34	06.54	195429	254158	30.10
Aroclor-1016 (5) [2C]	07.22	07.12	07.32	141279	189322	34.00
Average-Aroclor-1260 [2C]	-----	-----	-----	510969	844275	65.20 *
Aroclor-1260 (1) [2C]	10.68	10.58	10.78	510718	793298	55.30
Aroclor-1260 (2) [2C]	10.85	10.75	10.95	277294	625586	126.00
Aroclor-1260 (3) [2C]	11.45	11.35	11.55	301840	476405	57.80
Aroclor-1260 (4) [2C]	11.95	11.85	12.05	739116	1197816	62.10
Aroclor-1260 (5) [2C]	12.77	12.67	12.87	725875	1128271	55.40
Tetrachloro-m-xylene [2C]	04.32	04.22	04.42	6887979	9830890	42.70 *
Decachlorobiphenyl [2C]	16.34	16.24	16.44	7501772	8734392	16.40

\* - Outside of QC limits

F-VII



9.8.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66604.D\ECD1A.CH Vial: 40  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66604.D\ECD2B.CH  
 Acq On : 29 Sep 2022 8:26 Operator: RL  
 Sample : SEQ-CCV Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 29 8:56 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.87	4.32	1223.1E6	491.5E6	54.967	51.740
Spiked Amount	50.000	Range	40 - 149	Recovery =	109.93%	103.48%
2) S Decachlorobiphen	13.02	16.34	959.2E6	436.7E6	42.983	46.933
Spiked Amount	50.000	Range	52 - 136	Recovery =	85.97%	93.87%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.21	4.92	231.6E6	66323370	565.126m	487.330
4) L3 Aroclor-1016 (2)	4.61	5.50	409.3E6	132.1E6	571.493	480.257
5) L3 Aroclor-1016 (3)	5.20	6.22	908.4E6	320.0E6	505.805	482.906
6) L3 Aroclor-1016 (4)	5.39	6.44	336.5E6	127.1E6	496.625	484.053
7) L3 Aroclor-1016 (5)	5.96	7.22	334.2E6	94660938	489.763	484.491
Sum Aroclor-1016 (1)			2220.1E6	740.2E6	2628.812	2419.038
Average Aroclor-1016 (1)					525.762	483.808
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
37) L9 Aroclor-1260 (1)	8.94	10.68	830.8E6	396.6E6	436.435	514.801
38) L9 Aroclor-1260 (2)	9.14	10.85	630.8E6	312.8E6	428.022	548.514 #
39) L9 Aroclor-1260 (3)	9.60	11.45	494.6E6	238.2E6	443.207	493.823
40) L9 Aroclor-1260 (4)	10.20	11.95	1496.6E6	598.9E6	480.169	497.630
41) L9 Aroclor-1260 (5)	10.77	12.77	1264.3E6	564.1E6	460.550	515.892
Sum Aroclor-1260 (1)			4717.2E6	2110.7E6	2248.383	2570.661
Average Aroclor-1260 (1)					449.677	514.132
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66604.D 80820906.M Thu Sep 29 14:47:55 2022 SS

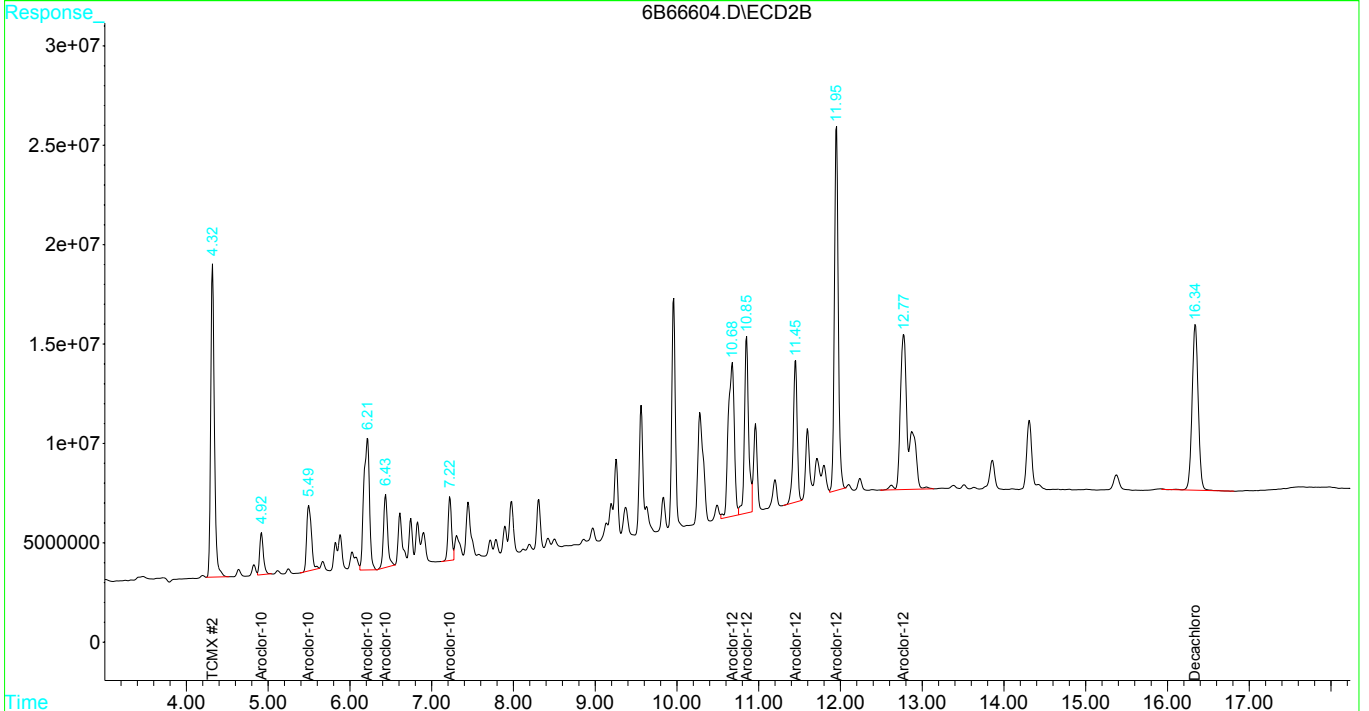
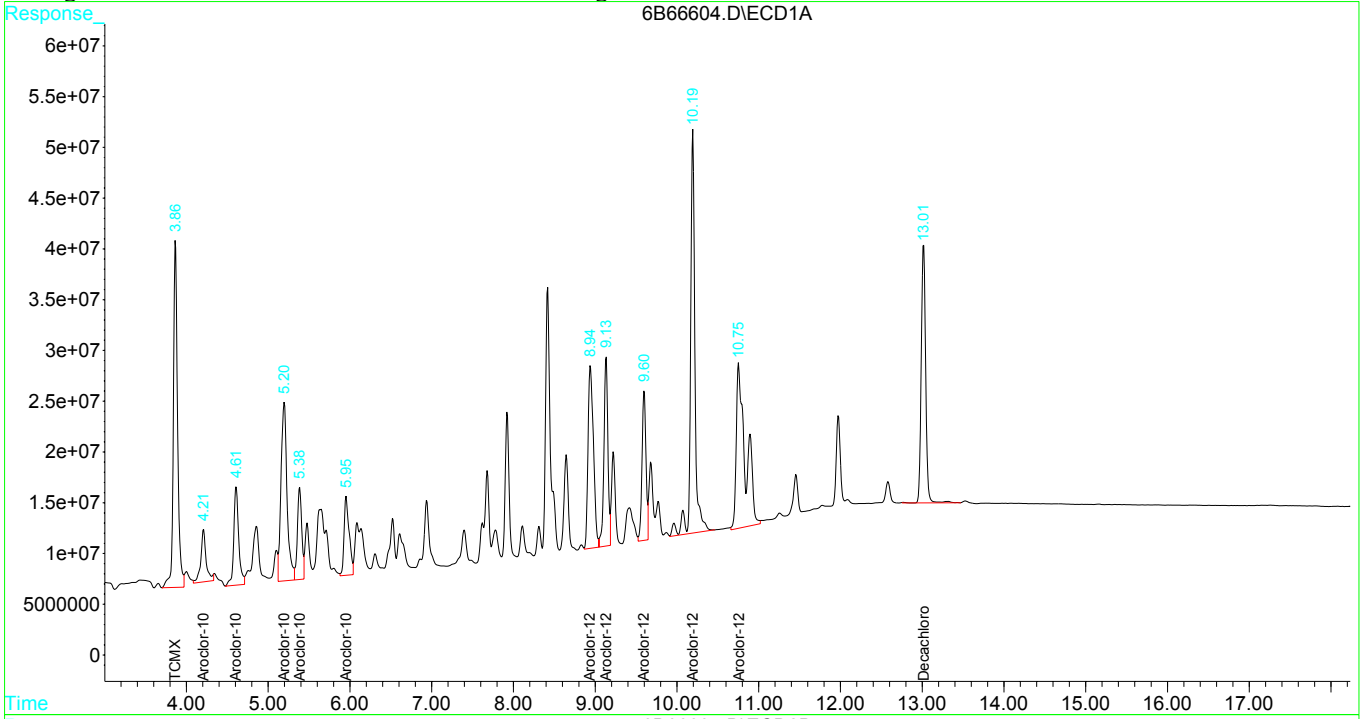


Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66604.D\ECD1A.CH Vial: 40  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66604.D\ECD2B.CH  
Acq On : 29 Sep 2022 8:26 Operator: RL  
Sample : SEQ-CCV Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 29 8:56 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info: 30M x 0.53mm x 0.42um





# CALIBRATION VERIFICATION SUMMARY

Client: One Time Client  
 Work Order: **2090813**

Lab Sample ID (X500): S2I2922-CCV2(1)      Init. Calib. Date(s): 02/10/2022  
 File ID: 6B66625.D      Date Analyzed: 09/29/2022 15:54  
 PCBs: Column 1      Matrix: Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016	-----	-----	-----	565650	899811	59.10 *
Aroclor-1016 (1)	04.21	04.11	04.31	270802	476176	75.80
Aroclor-1016 (2)	04.61	04.51	04.71	482939	789119	63.40
Aroclor-1016 (3)	05.20	05.10	05.30	1205729	1932097	60.20
Aroclor-1016 (4)	05.38	05.28	05.48	435325	634897	45.80
Aroclor-1016 (5)	05.95	05.85	06.05	433454	666766	53.80
Average-Aroclor-1260	-----	-----	-----	1076573	1863730	73.10 *
Aroclor-1260 (1)	08.94	08.84	09.04	1069571	1624160	51.90
Aroclor-1260 (2)	09.13	09.03	09.23	620585	1286753	107.00
Aroclor-1260 (3)	09.59	09.49	09.69	612777	995292	62.40
Aroclor-1260 (4)	10.19	10.09	10.29	1556862	2940438	88.90
Aroclor-1260 (5)	10.77	10.67	10.87	1523069	2472008	62.30
Tetrachloro-m-xylene	03.87	03.77	03.97	13724810	22695500	65.40 *
Decachlorobiphenyl	13.01	12.91	13.11	15099560	18138750	20.10 *

\* - Outside of QC limits

F-VII



9.8.

## CALIBRATION VERIFICATION SUMMARY

**Client:**        \_One Time Client  
**Work Order:**   2090813

Lab Sample ID (X500):        S2I2922-CCV2(2)                            Init. Calib. Date(s):   02/10/2022  
 File ID:                        6B66625.D    Date Analyzed:        09/29/2022 15:54  
 PCBs                            Column 2   Matrix:                 Soil

Individual Mix Compound		RT WINDOW		$\overline{CF}$	CF	%D
		FROM	TO			
Average-Aroclor-1016 [2C]	-----	-----	-----	232757	277994	19.40
Aroclor-1016 (1) [2C]	04.93	04.83	05.03	110317	128512	16.50
Aroclor-1016 (2) [2C]	05.51	05.41	05.61	219090	255853	16.80
Aroclor-1016 (3) [2C]	06.23	06.13	06.33	497672	581828	16.90
Aroclor-1016 (4) [2C]	06.45	06.35	06.55	195429	237378	21.50
Aroclor-1016 (5) [2C]	07.23	07.13	07.33	141279	186402	31.90
Average-Aroclor-1260 [2C]	-----	-----	-----	510969	798041	56.20 *
Aroclor-1260 (1) [2C]	10.69	10.59	10.79	510718	755032	47.80
Aroclor-1260 (2) [2C]	10.86	10.76	10.96	277294	617535	123.00
Aroclor-1260 (3) [2C]	11.46	11.36	11.56	301840	453244	50.20
Aroclor-1260 (4) [2C]	11.96	11.86	12.06	739116	1108157	49.90
Aroclor-1260 (5) [2C]	12.78	12.68	12.88	725875	1056235	45.50
Tetrachloro-m-xylene [2C]	04.33	04.23	04.43	6887979	9194642	33.50 *
Decachlorobiphenyl [2C]	16.35	16.25	16.45	7501772	8175384	9.00

\* - Outside of QC limits

F-VII



9.8.

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66625.D\ECD1A.CH Vial: 40  
 Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66625.D\ECD2B.CH  
 Acq On : 29 Sep 2022 15:54 Operator: RL  
 Sample : SEQ-CCV Inst : GCECD-6  
 Misc : Multiplr: 1.00  
 IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
 Quant Time: Sep 30 8:43 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
 Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
 Last Update : Wed Sep 07 14:29:25 2022  
 Response via : Initial Calibration  
 DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
 Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
 Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/kg	ug/kg
-----						
System Monitoring Compounds						
1) S TCMX	3.87	4.33	1134.8E6	459.7E6	50.999	48.391
Spiked Amount	50.000	Range	40 - 149	Recovery	= 102.00%	96.78%
2) S Decachlorobiphen	13.01	16.35	906.9E6	408.8E6	40.643	43.930
Spiked Amount	50.000	Range	52 - 136	Recovery	= 81.29%	87.86%
Target Compounds						
3) L3 Aroclor-1016 (1)	4.21	4.93	238.1E6	64255946	580.850m	472.139
4) L3 Aroclor-1016 (2)	4.61	5.51	394.6E6	127.9E6	550.890	465.061
5) L3 Aroclor-1016 (3)	5.20	6.23	966.0E6	290.9E6	537.903	438.945
6) L3 Aroclor-1016 (4)	5.38	6.45	317.4E6	118.7E6	468.450	452.095
7) L3 Aroclor-1016 (5)	5.95	7.23	333.4E6	93201069	488.526	477.019
Sum Aroclor-1016 (1)			2249.5E6	695.0E6	2626.618	2305.260
Average Aroclor-1016 (1)					525.324	461.052
Sum Aroclor-1221 (1)			0	0	N.D.	N.D.
Average Aroclor-1221 (1)					0.000	0.000
Sum Aroclor-1232 (1)			0	0	N.D.	N.D.
Average Aroclor-1232 (1)					0.000	0.000
Sum Aroclor-1242 (1)			0	0	N.D.	N.D.
Average Aroclor-1242 (1)					0.000	0.000
Sum Aroclor-1248 (1)			0	0	N.D.	N.D.
Average Aroclor-1248 (1)					0.000	0.000
Sum Aroclor-1254 (1)			0	0	N.D.	N.D.
Average Aroclor-1254 (1)					0.000	0.000
37) L9 Aroclor-1260 (1)	8.94	10.69	812.1E6	377.5E6	426.619	489.969
38) L9 Aroclor-1260 (2)	9.13	10.86	643.4E6	308.8E6	436.545	541.456
39) L9 Aroclor-1260 (3)	9.59	11.46	497.6E6	226.6E6	445.925	469.815
40) L9 Aroclor-1260 (4)	10.19	11.96	1470.2E6	554.1E6	471.693	460.381
41) L9 Aroclor-1260 (5)	10.77	12.78	1236.0E6	528.1E6	450.226	482.954
Sum Aroclor-1260 (1)			4659.3E6	1995.1E6	2231.008	2444.575
Average Aroclor-1260 (1)					446.202	488.915
Sum Aroclor-1262 (1)			0	0	N.D.	N.D.
Average Aroclor-1262 (1)					0.000	0.000
Sum Aroclor-1268 (1)			0	0	N.D.	N.D.
Average Aroclor-1268 (1)					0.000	0.000

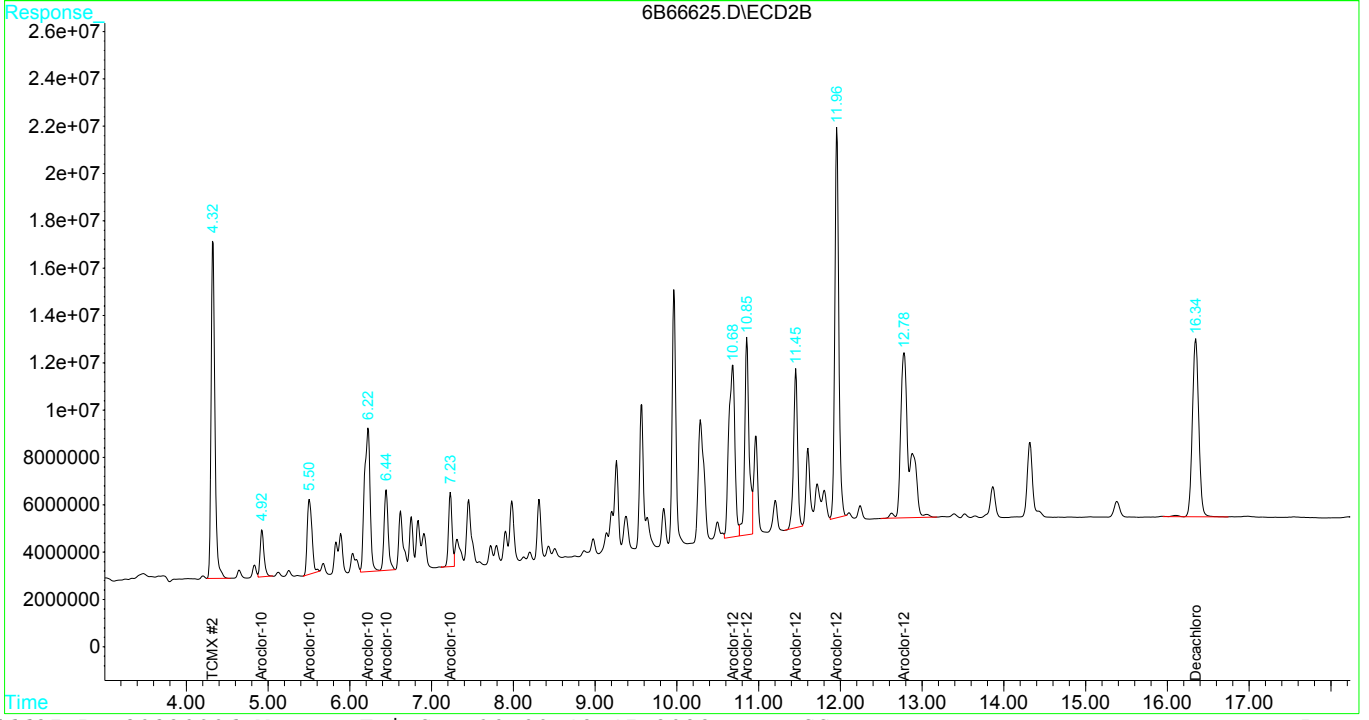
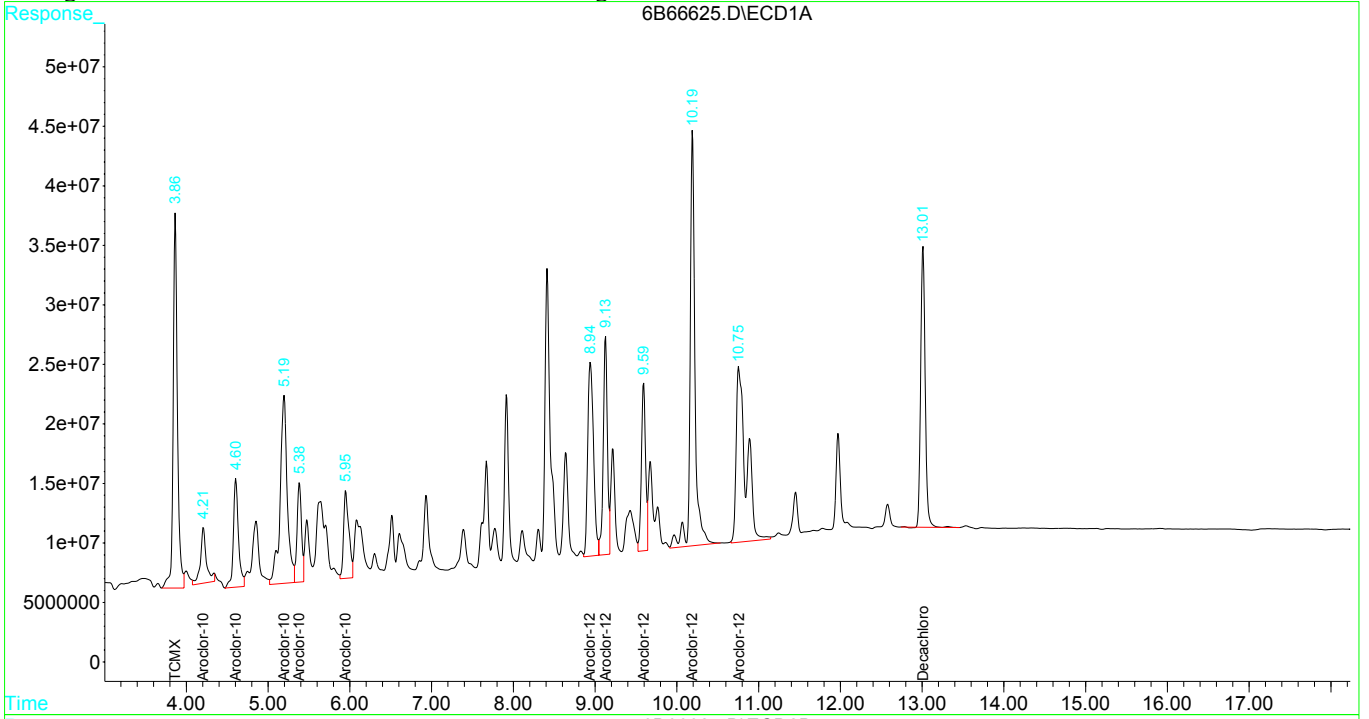
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.  
 6B66625.D 80820906.M Fri Sep 30 09:42:44 2022 SS

Quantitation Report (QT Reviewed)

Signal #1 : G:\HPCHEM\GCECD6\DATA\20220929\6B66625.D\ECD1A.CH Vial: 40  
Signal #2 : G:\HPCHEM\GCECD6\DATA\20220929\6B66625.D\ECD2B.CH  
Acq On : 29 Sep 2022 15:54 Operator: RL  
Sample : SEQ-CCV Inst : GCECD-6  
Misc : Multiplr: 1.00  
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e  
Quant Time: Sep 30 8:43 2022 Quant Results File: 80820906.RES

Quant Method : G:\HPCHEM\G...\80820906.M (Chemstation Integrator)  
Title : PCBs by EPA Method SW-846 8082A and EPA 608.3  
Last Update : Wed Sep 07 14:29:25 2022  
Response via : Multiple Level Calibration  
DataAcq Meth : RUNPCB1.M

Volume Inj. : 1ul  
Signal #1 Phase : RTx-50 Signal #2 Phase: RTx-CLPesticides II  
Signal #1 Info : 30M x 0.53mm x 0. Signal #2 Info : 30M x 0.53mm x 0.42um





AQUA PRO-TECH LABORATORIES  
Certified Environmental Testing

# GENERAL CHEMISTRY

Edyta Komorek

Work Order: 2090813

Project: Colonia High School

10  
10.

# ANALYSIS DATA SHEET

## General Chemistry

Client: Edyta Komorek  
Project: Colonia High School  
Work Order: 2090813

### General Chemistry

#### 2090813-01 (Soil) - S-1

Analyte	Units	Conc.	MDL	DF	Qual	Analyzed	Method
Percent Solids	%	75.9		1		09/20/22 11:03	Gravimetric

#### 2090813-02 (Solid) - Caulk-1

Analyte	Units	Conc.	MDL	DF	Qual	Analyzed	Method
Percent Solids	%	100		1		09/20/22 11:08	Gravimetric

10

10.1.

ND - Indicates compound analyzed for but not detected  
J - Indicates estimated value  
B - Indicates compound found in associated blank  
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution  
H - Indicates a Hold Time violation  
P - Greater than 25% diff. between 2 GC columns.  
MDL - Minimum detection limit, RL - Reporting limit

F-III

## ANALYTICAL RESULTS

### STANDARD DELIVERABLES FORMAT

APL WORK ORDER NUMBER: 2091269

\_One Time Client

Project: Edyte K. - Colonial High School

A handwritten signature in black ink, appearing to read "Brian Wood".

Brian Wood  
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Oct 17, 2022

**Analytical Results Summary**  
**Edyte K. - Colonial High School**  
**2091269-01 (Soil)**

P-1

<b>Collected</b> 09/28/2022 18:45	<b>Received</b> 09/29/2022 16:49	<b>Contact</b> _One Time Client
--------------------------------------	-------------------------------------	------------------------------------

Lab Section/ Analysis	Method	Prepared	Analyzed	Result	Qual	MDL	RL	Units
<b>General Chemistry</b>								
Percent Solids	Gravimetric	09/29/22 18:13	09/30/22 10:55	74.9				%
<b>Pesticides</b>								
4,4'-DDD	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.596	1.30	mg/kg dry
4,4'-DDE	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.712	1.30	mg/kg dry
4,4'-DDT	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.919	1.30	mg/kg dry
Aldrin	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.617	1.30	mg/kg dry
alpha-BHC	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.388	1.30	mg/kg dry
beta-BHC	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.622	1.30	mg/kg dry
<b>Chlordane</b>	<b>SW 846 8081B</b>	09/30/22 08:45	10/07/22 05:27	<b>113</b>	<b>D</b>	<b>2.89</b>	<b>6.51</b>	mg/kg dry
delta-BHC	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.605	1.30	mg/kg dry
Dieldrin	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.681	1.30	mg/kg dry
Endosulfan I	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.615	1.30	mg/kg dry
Endosulfan II	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.592	1.30	mg/kg dry
Endosulfan sulfate	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.490	1.30	mg/kg dry
Endosulfans, Total (alpha and beta)	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.592	1.30	mg/kg dry
Endrin	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.450	1.30	mg/kg dry
Endrin aldehyde	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.519	1.30	mg/kg dry
Endrin ketone	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.459	1.30	mg/kg dry
gamma-BHC (Lindane)	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.413	1.30	mg/kg dry
<b>Heptachlor</b>	<b>SW 846 8081B</b>	09/30/22 08:45	10/06/22 14:38	<b>4.35</b>	<b>D</b>	<b>0.348</b>	<b>1.30</b>	mg/kg dry
<b>Heptachlor Epoxide</b>	<b>SW 846 8081B</b>	09/30/22 08:45	10/06/22 14:38	<b>14.7</b>	<b>D</b>	<b>0.657</b>	<b>1.30</b>	mg/kg dry
Methoxychlor	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	0.382	1.30	mg/kg dry
Toxaphene	SW 846 8081B	09/30/22 08:45	10/06/22 14:38	ND	U	62.7	66.1	mg/kg dry
<b>Herbicides</b>								
2,4,5-TP (Silvex)	SW 846 8151A	09/29/22 17:00	10/02/22 00:12	ND	U	0.0131	0.134	mg/kg dry
2,4-D	SW 846 8151A	09/29/22 17:00	10/02/22 00:12	ND	U	0.0222	0.134	mg/kg dry

FootNotes

RL - Reporting limit  
 MDL - Minimum detection limit  
 ND, U - Indicates compound analyzed for but not detected  
 J - Indicates estimated value

B - Indicates compound found in associated blank  
 E - Concentration exceeds highest calibration standard  
 D - Indicates result is based on a dilution  
 P - Greater than 25% diff. between 2 GC columns  
 H - Indicates a Hold Time violation  
 D1 - Sample was Decanted (Dissolved)



## CHAIN OF CUSTODY

**APL 2091269**

AQUA PRO-TECH LABORATORIES



www.aquaprotechlabs.com

Contamination Level

Low  
 Medium  
 High

Client: <u>Edyta Komorek</u>	Send Report To: <u>Edyta Komorek</u>
Address: <u>Coloniz NJ 07067</u>	Address: <u>Coloniz NJ 07067</u>
Phone: <u>[Redacted]</u>	Phone: <u>[Redacted]</u>
Send Invoice To: <u>Edyta Komorek</u>	Send Invoice To: <u>Edyta Komorek</u>
Project Name: <u>Coloniz High School</u>	Address: <u>[Redacted]</u>
Project Manager: <u>EK</u>	Sampling Location: <u>Coloniz High School</u>
Project or PO #:	Sampled By: <u>Edyta Komorek</u>

Turn-Around Time

APL Standard 2 Weeks  
 Rush (Choose One Below)  
 1 Day  2 Days  3 Days  
 1 Week  Other (Specify Below)

Date and Time Required: \_\_\_\_\_  
 \*\*May Need Lab Approval

Report / Electronic Format

<input type="checkbox"/> Results Only / NY ASP-A	<input type="checkbox"/> Excel Summary
<input checked="" type="checkbox"/> Reduced: NJ DEP	<input type="checkbox"/> EQUIS
<input type="checkbox"/> Full: NJ DEP / NY ASP-B	<input type="checkbox"/> EnviroData
<input type="checkbox"/> State Forms/E2 Reporting	<input type="checkbox"/> Hazsite EDD

PWSID # \_\_\_\_\_ SRP# \_\_\_\_\_

Comments/Special Instructions:

Cooler Temp:  
4.0

ANALYSIS REQUESTED													
Sample #		Sample Source: Field ID			Collect Date	Collect Time	Matrix	Grab	Comp	No. of Bottles	Preservative	Pesticides	Herbicides
01		P1			7/28/2022	18:45	S	X		1	No	X	X

RELINQUISHED BY: <u>Edyta Komorek</u>	RECEIVED BY: _____	Date: <u>9/24/22</u>
RELINQUISHED BY: _____	RECEIVED BY: _____	Time: <u>13:07</u>
RELINQUISHED BY: _____	RECEIVED BY: _____	Date: <u>9/24/22</u>
RELINQUISHED BY: _____	RECEIVED BY: _____	Time: <u>16:49</u>
RELINQUISHED BY: _____	RECEIVED BY: _____	Date: _____
RELINQUISHED BY: _____	RECEIVED BY: _____	Time: _____

**DATA FOR  
GC SEMI-VOLATILES**

**PROJECT NAME : EAST**

**ORDER ID : N4457**

**ATTENTION : Edyta Komorek**



CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY:	PROJECT NAME: <u>EPA</u>	PROJECT NO.:	LOCATION: <u>Woodbridge Rd</u>	BILL TO:	PO#:
ADDRESS:	PROJECT NO.:	PROJECT NO.:	LOCATION: <u>Woodbridge Rd</u>	ADDRESS:	
CITY:	PROJECT MANAGER: <u>Edyta Kowalek</u>	CITY:	CITY:	CITY:	STATE:
STATE:	e-mail:	STATE:	STATE:	STATE:	ZIP:
ATTENTION:	PHONE:	ATTENTION:	PHONE:	ATTENTION:	PHONE:
PHONE:	FAX:	ATTENTION:	PHONE:	ATTENTION:	PHONE:
DATA TURNOURD INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS	
FAX (RUSH): <u>Standard</u> DAYS	Level 1 (Results Only) <input type="checkbox"/>	Level 4 (QC + Full Raw Data)			
HARD COPY (DATA PACKAGE): <u>Standard</u> DAYS	Level 2 (Results + QC) <input checked="" type="checkbox"/>	NJ Reduced <input type="checkbox"/>			
EDD: <u>W/p</u> DAYS	Level 3 (Results + QC) <input type="checkbox"/>	NYS ASP A <input type="checkbox"/>			
*TO BE APPROVED BY CHEMTECH	+ Raw Data <input type="checkbox"/>	Other <input type="checkbox"/>			
STANDARD HARD COPY TURNAROUND TIME IS 10 BUSINESS DAYS	EDD FORMAT: <u>N/A</u>				
PROJECT IDENTIFICATION		PRESERVATIVES		COMMENTS	
CHEMTECH SAMPLE ID	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES
1. <u>S-1</u>	<u>Wipe</u>	<input checked="" type="checkbox"/>	<u>8/20/08</u>	<u>6:55</u>	<u>1</u>
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	Comments:	
1. <u>Edyta Kowalek</u>	<u>7:30pm</u>	<u>SJ</u>	<u>9:31 AM</u>	<u>OK</u>	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:		
2.					
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:		
3.					
CLIENT INFORMATION			CLIENT PROJECT INFORMATION		
CLIENT:	Hand Delivered <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	COMPLIANT <input type="checkbox"/>	NON COMPLIANT <input type="checkbox"/>	COOLER TEMP <u>21</u> °C
CHEMTECH:	Picked Up <input type="checkbox"/>	Field Sampling <input type="checkbox"/>	Statement Complete		
Page <u>1</u> of <u>1</u>			Statement Complete		



**Report of Analysis**

Client:		Date Collected:	08/30/22
Project:	East	Date Received:	08/31/22
Client Sample ID:	S-1	SDG No.:	N4457
Lab Sample ID:	N4457-01	Matrix:	wipe
Analytical Method:	SW8082A	% Moisture:	0
Sample Wt/Vol:	1	Units:	wipe
Soil Aliquot Vol:		Final Vol:	10000
Extraction Type:		Test:	PCB
GPC Factor :	1.0	Injection Volume :	
		Decanted:	
			uL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO089245.D	1	09/02/22 09:40	09/02/22 22:55	PB147434

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
12674-11-2	Aroclor-1016	0.092	U	0.092	0.51	ug/wipe
11104-28-2	Aroclor-1221	0.14	U	0.14	0.51	ug/wipe
11141-16-5	Aroclor-1232	0.12	U	0.12	0.51	ug/wipe
53469-21-9	Aroclor-1242	0.073	U	0.073	0.51	ug/wipe
12672-29-6	Aroclor-1248	0.089	U	0.089	0.51	ug/wipe
11097-69-1	Aroclor-1254	4.30		0.13	0.51	ug/wipe
37324-23-5	Aroclor-1262	0.100	U	0.100	0.51	ug/wipe
11100-14-4	Aroclor-1268	0.17	U	0.17	0.51	ug/wipe
11096-82-5	Aroclor-1260	0.097	U	0.097	0.51	ug/wipe
<b>SURROGATES</b>						
877-09-8	Tetrachloro-m-xylene	26.9		40 - 162	134%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.0		32 - 176	120%	SPK: 20

Comments: Surface area is equal to 100cm<sup>2</sup>

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates &gt;25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit