

LAB CHRONICLE

OrderID:	Q1207	OrderDate:	1/28/2025 11:40:00 AM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1207-01	JPP-2.1-012725	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/27/25	01/29/25	01/30/25 01/29/25	01/28/25
Q1207-03	JPP-2.1-012725	SOIL	PCB	8082A	01/27/25	01/29/25	01/29/25	01/28/25
Q1207-04	JPP-2.1-012725	TCLP	TCLP Herbicide	8151A	01/27/25	01/29/25	01/30/25	01/28/25
Q1207-05	JPP-5.1-012725	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/27/25	01/29/25	01/30/25 01/29/25	01/28/25
Q1207-07	JPP-5.1-012725	SOIL	PCB	8082A	01/27/25	01/29/25	01/29/25	01/28/25
Q1207-08	JPP-5.1-012725	TCLP	TCLP Herbicide	8151A	01/27/25	01/29/25	01/30/25	01/28/25
Q1207-09	JPP-4.5-012725	SOIL	Gasoline Range Organics	8015D	01/27/25		01/29/25	01/28/25
Q1207-11	JPP-4.5-012725	SOIL	PCB	8082A	01/27/25	01/29/25	01/29/25	01/28/25
Q1207-12	JPP-4.5-012725	TCLP	TCLP Herbicide	8151A	01/27/25	01/29/25	01/30/25	01/28/25
Q1207-13	JPP-16.2-012725	SOIL	Diesel Range Organics Gasoline Range Organics	8015D 8015D	01/27/25	01/29/25	01/30/25 01/29/25	01/28/25

LAB CHRONICLE

Q1207-15	JPP-16.2-012725	SOIL			01/27/25		01/28/25
			PCB	8082A	01/29/25	01/29/25	
Q1207-16	JPP-16.2-012725	TCLP			01/27/25		01/28/25
			TCLP Herbicide	8151A	01/29/25	01/30/25	
Q1207-17	JPP-20.2-012725	SOIL			01/27/25		01/28/25
			Diesel Range Organics	8015D	01/29/25	01/30/25	
			Gasoline Range Organics	8015D		01/29/25	
Q1207-19	JPP-20.2-012725	SOIL			01/27/25		01/28/25
			PCB	8082A	01/29/25	01/29/25	
Q1207-20	JPP-20.2-012725	TCLP			01/27/25		01/28/25
			TCLP Herbicide	8151A	01/29/25	01/30/25	

Hit Summary Sheet
SW-846

SDG No.: Q1207

Order ID: Q1207

Client: RU2 Engineering, LLC

Project ID: NYCDDC SANTWOBR Brooklyn Bri

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : JPP-2.1-012725								
Q1207-03	JPP-2.1-012725	SOIL	Aroclor-1260	9.20	J	3.30	19.4	ug/kg
			Total Concentration:	9.200				
Client ID : JPP-5.1-012725								
Q1207-07	JPP-5.1-012725	SOIL	Aroclor-1260	14.3	J	3.20	18.7	ug/kg
			Total Concentration:	14.300				
Client ID : JPP-16.2-012725								
Q1207-15	JPP-16.2-012725	SOIL	Aroclor-1260	13.6	J	3.30	19.1	ug/kg
			Total Concentration:	13.600				
Client ID : JPP-20.2-012725								
Q1207-19	JPP-20.2-012725	SOIL	Aroclor-1260	17.0	J	3.30	19.3	ug/kg
			Total Concentration:	17.000				



SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109249.D	1	01/29/25 08:55	01/29/25 19:49	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	19.4	U	3.90	19.4	ug/kg
11104-28-2	Aroclor-1221	19.4	U	7.30	19.4	ug/kg
11141-16-5	Aroclor-1232	19.4	U	3.90	19.4	ug/kg
53469-21-9	Aroclor-1242	19.4	U	3.90	19.4	ug/kg
12672-29-6	Aroclor-1248	19.4	U	9.00	19.4	ug/kg
11097-69-1	Aroclor-1254	19.4	U	3.10	19.4	ug/kg
37324-23-5	Aroclor-1262	19.4	U	5.20	19.4	ug/kg
11100-14-4	Aroclor-1268	19.4	U	3.90	19.4	ug/kg
11096-82-5	Aroclor-1260	9.20	J	3.30	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	22.1		32 - 144	110%	SPK: 20
2051-24-3	Decachlorobiphenyl	13.9		32 - 175	69%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-07	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109250.D	1	01/29/25 08:55	01/29/25 20:07	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	18.7	U	3.70	18.7	ug/kg
11104-28-2	Aroclor-1221	18.7	U	7.00	18.7	ug/kg
11141-16-5	Aroclor-1232	18.7	U	3.70	18.7	ug/kg
53469-21-9	Aroclor-1242	18.7	U	3.70	18.7	ug/kg
12672-29-6	Aroclor-1248	18.7	U	8.70	18.7	ug/kg
11097-69-1	Aroclor-1254	18.7	U	3.00	18.7	ug/kg
37324-23-5	Aroclor-1262	18.7	U	5.00	18.7	ug/kg
11100-14-4	Aroclor-1268	18.7	U	3.80	18.7	ug/kg
11096-82-5	Aroclor-1260	14.3	J	3.20	18.7	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		32 - 144	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.8		32 - 175	74%	SPK: 20

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-11	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	81.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109251.D	1	01/29/25 08:55	01/29/25 20:26	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	20.8	U	4.10	20.8	ug/kg
11104-28-2	Aroclor-1221	20.8	U	7.80	20.8	ug/kg
11141-16-5	Aroclor-1232	20.8	U	4.20	20.8	ug/kg
53469-21-9	Aroclor-1242	20.8	U	4.10	20.8	ug/kg
12672-29-6	Aroclor-1248	20.8	U	9.60	20.8	ug/kg
11097-69-1	Aroclor-1254	20.8	U	3.30	20.8	ug/kg
37324-23-5	Aroclor-1262	20.8	U	5.60	20.8	ug/kg
11100-14-4	Aroclor-1268	20.8	U	4.20	20.8	ug/kg
11096-82-5	Aroclor-1260	20.8	U	3.60	20.8	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	16.6		32 - 144	83%	SPK: 20
2051-24-3	Decachlorobiphenyl	11.4		32 - 175	57%	SPK: 20

Comments:

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Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	01/27/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	01/28/25	
Client Sample ID:	JPP-16.2-012725		SDG No.:	Q1207	
Lab Sample ID:	Q1207-15		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	88.8	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109252.D	1	01/29/25 08:55	01/29/25 20:44	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	19.1	U	3.80	19.1	ug/kg
11104-28-2	Aroclor-1221	19.1	U	7.20	19.1	ug/kg
11141-16-5	Aroclor-1232	19.1	U	3.80	19.1	ug/kg
53469-21-9	Aroclor-1242	19.1	U	3.80	19.1	ug/kg
12672-29-6	Aroclor-1248	19.1	U	8.90	19.1	ug/kg
11097-69-1	Aroclor-1254	19.1	U	3.10	19.1	ug/kg
37324-23-5	Aroclor-1262	19.1	U	5.10	19.1	ug/kg
11100-14-4	Aroclor-1268	19.1	U	3.90	19.1	ug/kg
11096-82-5	Aroclor-1260	13.6	J	3.30	19.1	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.1		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.3		32 - 175	72%	SPK: 20

Comments:

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MDL = Method Detection Limit

LOD = Limit of Detection

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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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-19	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109253.D	1	01/29/25 08:55	01/29/25 21:01	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	19.3	U	3.90	19.3	ug/kg
11104-28-2	Aroclor-1221	19.3	U	7.30	19.3	ug/kg
11141-16-5	Aroclor-1232	19.3	U	3.90	19.3	ug/kg
53469-21-9	Aroclor-1242	19.3	U	3.90	19.3	ug/kg
12672-29-6	Aroclor-1248	19.3	U	9.00	19.3	ug/kg
11097-69-1	Aroclor-1254	19.3	U	3.10	19.3	ug/kg
37324-23-5	Aroclor-1262	19.3	U	5.20	19.3	ug/kg
11100-14-4	Aroclor-1268	19.3	U	3.90	19.3	ug/kg
11096-82-5	Aroclor-1260	17.0	J	3.30	19.3	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.0		32 - 144	100%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.0		32 - 175	60%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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



QC SUMMARY

Surrogate Summary

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PO108981.D	PIBLK-PO108981.D	Tetrachloro-m-xylene	1	20	21.9	109		60	140
		Decachlorobiphenyl	1	20	21.6	108		60	140
		Tetrachloro-m-xylene	2	20	20.6	103		60	140
		Decachlorobiphenyl	2	20	21.9	109		60	140
I.BLK-PO109228.D	PIBLK-PO109228.D	Tetrachloro-m-xylene	1	20	25.2	126		60	140
		Decachlorobiphenyl	1	20	25.4	127		60	140
		Tetrachloro-m-xylene	2	20	24.3	121		60	140
		Decachlorobiphenyl	2	20	24.0	120		60	140
PB166333BL	PB166333BL	Tetrachloro-m-xylene	1	20	25.2	126		32	144
		Decachlorobiphenyl	1	20	25.1	125		32	175
		Tetrachloro-m-xylene	2	20	24.1	120		32	144
		Decachlorobiphenyl	2	20	24.9	124		32	175
PB166333BS	PB166333BS	Tetrachloro-m-xylene	1	20	23.9	120		32	144
		Decachlorobiphenyl	1	20	25.7	129		32	175
		Tetrachloro-m-xylene	2	20	23.1	116		32	144
		Decachlorobiphenyl	2	20	24.0	120		32	175
I.BLK-PO109243.D	PIBLK-PO109243.D	Tetrachloro-m-xylene	1	20	24.6	123		60	140
		Decachlorobiphenyl	1	20	25.3	126		60	140
		Tetrachloro-m-xylene	2	20	23.7	118		60	140
		Decachlorobiphenyl	2	20	23.6	118		60	140
Q1205-01MS	VNJ-236MS	Tetrachloro-m-xylene	1	20	19.5	98		32	144
		Decachlorobiphenyl	1	20	16.1	80		32	175
		Tetrachloro-m-xylene	2	20	18.9	94		32	144
		Decachlorobiphenyl	2	20	15.7	79		32	175
Q1205-01MSD	VNJ-236MSD	Tetrachloro-m-xylene	1	20	18.8	94		32	144
		Decachlorobiphenyl	1	20	15.4	77		32	175
		Tetrachloro-m-xylene	2	20	18.5	92		32	144
		Decachlorobiphenyl	2	20	15.5	77		32	175
Q1207-03	JPP-2.1-012725	Tetrachloro-m-xylene	1	20	22.1	110		32	144
		Decachlorobiphenyl	1	20	13.2	66		32	175
		Tetrachloro-m-xylene	2	20	19.8	99		32	144
		Decachlorobiphenyl	2	20	13.9	69		32	175
Q1207-07	JPP-5.1-012725	Tetrachloro-m-xylene	1	20	18.9	95		32	144
		Decachlorobiphenyl	1	20	14.1	70		32	175
		Tetrachloro-m-xylene	2	20	20.6	103		32	144
		Decachlorobiphenyl	2	20	14.8	74		32	175
Q1207-11	JPP-4.5-012725	Tetrachloro-m-xylene	1	20	16.1	80		32	144
		Decachlorobiphenyl	1	20	10.7	53		32	175
		Tetrachloro-m-xylene	2	20	16.6	83		32	144
		Decachlorobiphenyl	2	20	11.4	57		32	175
Q1207-15	JPP-16.2-012725	Tetrachloro-m-xylene	1	20	19.0	95		32	144

Surrogate Summary

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
Q1207-15	JPP-16.2-012725	Decachlorobiphenyl	1	20	13.5	68		32	175
		Tetrachloro-m-xylene	2	20	20.1	100		32	144
		Decachlorobiphenyl	2	20	14.3	72		32	175
Q1207-19	JPP-20.2-012725	Tetrachloro-m-xylene	1	20	19.6	98		32	144
		Decachlorobiphenyl	1	20	11.1	56		32	175
		Tetrachloro-m-xylene	2	20	20.0	100		32	144
		Decachlorobiphenyl	2	20	12.0	60		32	175
		Tetrachloro-m-xylene	1	20	23.4	117		60	140
I.BLK-PO109258.D	PIBLK-PO109258.D	Decachlorobiphenyl	1	20	18.9	94		60	140
		Tetrachloro-m-xylene	2	20	23.9	119		60	140
		Decachlorobiphenyl	2	20	20.6	103		60	140
		Tetrachloro-m-xylene	2	20	20.6	103		60	140

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8082A

DataFile : PO109245.D

Lab Sample ID:		Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:		VNJ-236MS											
Q1205-01MS		AR1016	190.8	0	182	ug/kg	95				55	146	
		AR1260	190.8	32.6	177	ug/kg	76				45	144	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8082A

DataFile : PO109246.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID:	VNJ-236MSD											
Q1205-01MSD	AR1016	190.6	0	178	ug/kg	93		2		55	146	20
	AR1260	190.6	32.6	174	ug/kg	74		3		45	144	20



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8082A Datafile : PO109238.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166333BS	AR1016	166.5	169	ug/kg	102				71	120	
	AR1260	166.5	159	ug/kg	95				65	130	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166333BL

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207

SAS No.: Q1207 SDG NO.: Q1207

Lab Sample ID: PB166333BL

Lab File ID: PO109237.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 01/29/2025

Date Analyzed (1): 01/29/2025

Date Analyzed (2): 01/29/2025

Time Analyzed (1): 15:45

Time Analyzed (2): 15:45

Instrument ID (1): ECD_O

Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB166333BS	PB166333BS	PO109238.D	01/29/2025	01/29/2025
VNJ-236MS	Q1205-01MS	PO109245.D	01/29/2025	01/29/2025
VNJ-236MSD	Q1205-01MSD	PO109246.D	01/29/2025	01/29/2025
JPP-2.1-012725	Q1207-03	PO109249.D	01/29/2025	01/29/2025
JPP-5.1-012725	Q1207-07	PO109250.D	01/29/2025	01/29/2025
JPP-4.5-012725	Q1207-11	PO109251.D	01/29/2025	01/29/2025
JPP-16.2-012725	Q1207-15	PO109252.D	01/29/2025	01/29/2025
JPP-20.2-012725	Q1207-19	PO109253.D	01/29/2025	01/29/2025

COMMENTS: _____



CALIBRATION SUMMARY

A
B
C
D
E
F
G

Calibration Times: 17:36 01:50

LAB FILE ID:	RT 1000 =	<u>PO108982.D</u>	RT 750 =	<u>PO108983.D</u>
	RT 500 =	PO108984.D	RT 250 =	PO108985.D
			RT 050 =	PO108986.D

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.76	8.76	8.76	8.76	8.76	8.76	8.66	8.86
Tetrachloro-m-xylene	3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80

A
B
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A
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C
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E
F
G

Calibration Times: 17:36 01:50

ID: 0.32 (mm)

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.71	8.71	8.71	8.71	8.71	8.71	8.61	8.81
Tetrachloro-m-xylene	3.70	3.70	3.70	3.70	3.70	3.70	3.60	3.80

A

B

C

D

E

F

G

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

Instrument ID: ECD_O **Calibration Date(s):** 01/21/2025 01/22/2025
Calibration Times: 17:36 01:50

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PO108982.D</u>		CF 750 = <u>PO108983.D</u>			
CF 500 = <u>PO108984.D</u>		CF 250 = <u>PO108985.D</u>		CF 050 = <u>PO108986.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	233065045	244410019	248250902	263810212	271896440	252286524
Aroclor-1016-2	(2)	325363679	338972765	344308556	357996712	357782160	344884774
Aroclor-1016-3	(3)	223049536	234801713	240773660	257313424	264644780	244116623
Aroclor-1016-4	(4)	175974311	184579665	189100190	198987084	205504880	190829226
Aroclor-1016-5	(5)	190134930	199311205	207066494	222947156	224348000	208761557
Aroclor-1260-1	(1)	348800771	364882765	375462458	399932624	416699380	381155600
Aroclor-1260-2	(2)	430525248	448276513	461774946	488220872	519105560	469580628
Aroclor-1260-3	(3)	359859412	378331397	386511394	408169100	424938760	391562013
Aroclor-1260-4	(4)	332481764	347292652	354683668	372951676	382377400	357957432
Aroclor-1260-5	(5)	803151986	830038244	833771178	853559688	852457760	834595771
Decachlorobiphenyl		6434348190	6661231787	6830111140	7188416880	7524624800	6927746559
Tetrachloro-m-xylene		7601276640	7501278947	7481675880	7644109480	7553803600	7556428909
Aroclor-1242-1	(1)	195196952	201389908	214304986	226003920	225308640	212440881
Aroclor-1242-2	(2)	268098195	278641713	289244872	304071824	293574460	286726213
Aroclor-1242-3	(3)	186201466	194711956	206440658	220830688	215362160	204709386
Aroclor-1242-4	(4)	146339247	152438169	160415562	170237596	164916200	158869355
Aroclor-1242-5	(5)	154300112	158580243	167963632	178401740	175909460	167031037
Decachlorobiphenyl		6093757170	6273163067	6555969800	6873050240	6988220200	6556832095
Tetrachloro-m-xylene		7302831450	7496516067	7696349800	7451780120	6586958200	7306887127
Aroclor-1248-1	(1)	145246997	150453889	157781164	170519664	173855120	159571367
Aroclor-1248-2	(2)	197265768	209686637	218963792	239048120	252482700	223489403
Aroclor-1248-3	(3)	248188978	257855635	270690240	293270108	299294900	273859972
Aroclor-1248-4	(4)	351583188	362624208	379215116	402583304	426725120	384546187
Aroclor-1248-5	(5)	245666962	251879323	262640736	279614828	288543680	265669106
Decachlorobiphenyl		6072639940	6272001520	6560139460	6944778840	7129210800	6595754112
Tetrachloro-m-xylene		7184593920	7370395840	7484351680	7653720840	7312573400	7401127136
Aroclor-1254-1	(1)	374847163	389452248	410697836	433454068	459205320	413531327
Aroclor-1254-2	(2)	325342531	339278107	358066768	381289080	405152620	361825821
Aroclor-1254-3	(3)	522141746	540493293	562618572	587400960	607950820	564121078
Aroclor-1254-4	(4)	328382284	332039301	348673262	361037032	352970440	344620464
Aroclor-1254-5	(5)	475331089	489980032	515035558	537655848	547482260	513096957
Decachlorobiphenyl		6154630290	6360969147	6655043100	6960677720	7204237800	6667111611
Tetrachloro-m-xylene		7266635340	7453080907	7677404800	7686251640	7337350200	7484144577
Aroclor-1268-1	(1)	1033690630	1036942464	1067670602	1080273708	1104982020	1064711885

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	952087675	951155156	979561020	979388044	983362060	969110791	2
Aroclor-1268-3	(3)	786406202	784932265	807859298	814292396	834332900	805564612	3
Aroclor-1268-4	(4)	327369336	328395845	341390382	351699060	363994160	342569757	5
Aroclor-1268-5	(5)	2419252053	2385425329	2430042174	2398845144	2323360200	2391384980	2
Decachlorobiphenyl		11036128070	11026162653	11389192500	11664983320	12135593800	11450412069	4
Tetrachloro-m-xylene		7546638300	7604080347	7812040940	7844017680	7509481400	7663251733	2

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1207 **SAS No.:** Q1207 **SDG NO.:** Q1207

Instrument ID: ECD_O **Calibration Date(s):** 01/21/2025 01/22/2025
Calibration Times: 17:36 01:50

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PO108982.D</u>		CF 750 = <u>PO108983.D</u>			
CF 500 = <u>PO108984.D</u>		CF 250 = <u>PO108985.D</u>		CF 050 = <u>PO108986.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	145518803	142573049	166649690	172900172	181948120	11
Aroclor-1016-2	(2)	223129267	236622256	232122136	250011316	249296120	5
Aroclor-1016-3	(3)	121270732	126119179	128693642	138175620	137629920	6
Aroclor-1016-4	(4)	98703058	105288716	109289440	120650588	118660940	8
Aroclor-1016-5	(5)	130939362	136319948	141694888	155164716	153595760	7
Aroclor-1260-1	(1)	229857010	239931019	247217984	265407312	277830920	8
Aroclor-1260-2	(2)	274616892	283537992	291890314	314812824	339164440	9
Aroclor-1260-3	(3)	255547157	264550967	272530098	288370904	310931080	8
Aroclor-1260-4	(4)	210034482	216033343	222462830	233977972	245747280	6
Aroclor-1260-5	(5)	481178354	492665984	499979908	514637484	514938920	3
Decachlorobiphenyl		3156544800	3289680693	3391332080	3623383520	3732817400	7
Tetrachloro-m-xylene		5315746230	5437498093	5428207440	5462079080	5158066000	2
Aroclor-1242-1	(1)	130294727	135534199	142873858	151389892	154466220	7
Aroclor-1242-2	(2)	183791222	188978371	198913930	207089908	207312700	5
Aroclor-1242-3	(3)	100083291	104057155	110676450	116018292	114379700	6
Aroclor-1242-4	(4)	101694040	106737525	114342192	123447428	121997980	8
Aroclor-1242-5	(5)	124175329	128045065	135895568	145256248	150561360	8
Decachlorobiphenyl		2975923130	3104041173	3249737920	3444762080	3552503800	7
Tetrachloro-m-xylene		5146305370	5269389160	5422425040	5452266880	4942424000	4
Aroclor-1248-1	(1)	97508588	101198119	106540372	114549420	116802080	8
Aroclor-1248-2	(2)	135954819	143343636	151605960	164947764	174030220	10
Aroclor-1248-3	(3)	145968318	152945292	161442194	176334456	190180940	11
Aroclor-1248-4	(4)	171715835	178859555	187881420	202639424	216432800	9
Aroclor-1248-5	(5)	167823607	172638881	180053168	192035492	203508660	8
Decachlorobiphenyl		3009595400	3126029333	3260555920	3479534800	3551272200	7
Tetrachloro-m-xylene		5072748910	5224226253	5283938200	5402921120	5021628000	3
Aroclor-1254-1	(1)	253547823	264686405	278940988	295164372	313075680	8
Aroclor-1254-2	(2)	223099297	232757513	247383274	262896088	285176280	10
Aroclor-1254-3	(3)	362340991	375750797	393412880	409817176	422789620	6
Aroclor-1254-4	(4)	207964031	212728924	222445680	231289600	227332320	4
Aroclor-1254-5	(5)	302636627	313319767	329146572	343115096	345356740	6
Decachlorobiphenyl		3009418030	3125275440	3274408080	3481058080	3592269800	7
Tetrachloro-m-xylene		5157782560	5318511973	5462257400	5454366480	5168021000	3
Aroclor-1268-1	(1)	605633372	613614913	625929052	644237020	658094440	3

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	555793036	560357999	571244564	587032548	581198500	571125329	2
Aroclor-1268-3	(3)	443116844	448542784	458393734	471576124	481232120	460572321	3
Aroclor-1268-4	(4)	171795401	175640587	181667170	188528320	184928840	180512064	4
Aroclor-1268-5	(5)	1182764439	1191499568	1205466938	1214359780	1189190120	1196656169	1
Decachlorobiphenyl		5296716160	5425177360	5590471540	5802552800	5997123200	5622408212	5
Tetrachloro-m-xylene		5377448880	5418716973	5531134800	5564772080	5234786600	5425371867	2

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Instrument ID: ECD_O Date(s) Analyzed: 01/21/2025 01/22/2025

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.91	3.81	4.01	100101000
		2	4.00	3.90	4.10	74407200
		3	4.08	3.98	4.18	208014000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.08	3.98	4.18	165122000
		2	4.57	4.47	4.67	90981600
		3	4.81	4.71	4.91	160152000
		4	4.99	4.89	5.09	88001400
		5	5.03	4.93	5.13	64818200
Aroclor-1262	500	1	6.85	6.75	6.95	534016000
		2	7.35	7.25	7.45	919466000
		3	7.64	7.54	7.74	364572000
		4	7.70	7.60	7.80	687626000
		5	8.20	8.10	8.30	302118000

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Instrument ID: ECD_O Date(s) Analyzed: 01/21/2025 01/22/2025

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.91	3.81	4.01	65489800
		2	4.00	3.90	4.10	49387600
		3	4.07	3.97	4.17	145160000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.07	3.97	4.17	115508000
		2	4.80	4.70	4.90	108913000
		3	4.98	4.88	5.08	59967000
		4	5.06	4.96	5.16	57262000
		5	5.23	5.13	5.33	60672000
Aroclor-1262	500	1	6.82	6.72	6.92	340358000
		2	7.32	7.22	7.42	554604000
		3	7.60	7.50	7.70	214440000
		4	7.67	7.57	7.77	391888000
		5	8.16	8.06	8.26	159461000

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Continuing Calib Date: 01/29/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 11:53 Initial Calibration Time(s): 17:36 01:50

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-2	(2)	4.82	4.81	4.71	4.91	-0.01
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.25	5.25	5.15	5.35	0.00
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.00
Aroclor-1260-3	(3)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-4	(4)	7.11	7.11	7.01	7.21	0.00
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.76	8.76	8.66	8.86	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Continuing Calib Date: 01/29/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 11:53 Initial Calibration Time(s): 17:36 01:50

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.78	4.80	4.70	4.90	0.02
Aroclor-1016-2	(2)	4.80	4.82	4.72	4.92	0.02
Aroclor-1016-3	(3)	4.98	5.00	4.90	5.10	0.02
Aroclor-1016-4	(4)	5.02	5.04	4.94	5.14	0.02
Aroclor-1016-5	(5)	5.23	5.25	5.15	5.35	0.02
Aroclor-1260-1	(1)	6.27	6.29	6.19	6.39	0.02
Aroclor-1260-2	(2)	6.45	6.47	6.37	6.57	0.02
Aroclor-1260-3	(3)	6.61	6.63	6.53	6.73	0.02
Aroclor-1260-4	(4)	7.08	7.10	7.00	7.20	0.02
Aroclor-1260-5	(5)	7.32	7.34	7.24	7.44	0.02
Tetrachloro-m-xylene		3.70	3.72	3.62	3.82	0.02
Decachlorobiphenyl		8.72	8.73	8.63	8.83	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL01 Date Analyzed: 01/29/2025

Lab Sample No.: AR1660CCC500 Data File : PO109224.D Time Analyzed: 11:53

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.795	4.695	4.895	537.920	500.000	7.6
Aroclor-1016-2	4.815	4.714	4.914	537.190	500.000	7.4
Aroclor-1016-3	4.872	4.770	4.970	534.470	500.000	6.9
Aroclor-1016-4	4.993	4.891	5.091	539.610	500.000	7.9
Aroclor-1016-5	5.250	5.149	5.349	532.740	500.000	6.5
Aroclor-1260-1	6.294	6.190	6.390	523.850	500.000	4.8
Aroclor-1260-2	6.482	6.379	6.579	520.770	500.000	4.2
Aroclor-1260-3	6.851	6.747	6.947	524.120	500.000	4.8
Aroclor-1260-4	7.112	7.008	7.208	526.960	500.000	5.4
Aroclor-1260-5	7.353	7.249	7.449	528.070	500.000	5.6
Decachlorobiphenyl	8.764	8.658	8.858	52.620	50.000	5.2
Tetrachloro-m-xylene	3.700	3.600	3.800	53.800	50.000	7.6

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL01 Date Analyzed: 01/29/2025

Lab Sample No.: AR1660CCC500 Data File : PO109224.D Time Analyzed: 11:53

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.782	4.703	4.903	562.120	500.000	12.4
Aroclor-1016-2	4.801	4.722	4.922	506.190	500.000	1.2
Aroclor-1016-3	4.976	4.898	5.098	526.530	500.000	5.3
Aroclor-1016-4	5.019	4.940	5.140	524.730	500.000	4.9
Aroclor-1016-5	5.232	5.153	5.353	522.620	500.000	4.5
Aroclor-1260-1	6.267	6.186	6.386	515.120	500.000	3.0
Aroclor-1260-2	6.454	6.373	6.573	508.150	500.000	1.6
Aroclor-1260-3	6.608	6.527	6.727	511.800	500.000	2.4
Aroclor-1260-4	7.080	6.999	7.199	511.760	500.000	2.4
Aroclor-1260-5	7.320	7.239	7.439	509.550	500.000	1.9
Decachlorobiphenyl	8.715	8.633	8.833	49.550	50.000	-0.9
Tetrachloro-m-xylene	3.697	3.618	3.818	54.550	50.000	9.1

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Continuing Calib Date: 01/29/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 16:49 Initial Calibration Time(s): 17:36 01:50

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-2	(2)	4.82	4.81	4.71	4.91	-0.01
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.25	5.25	5.15	5.35	0.00
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.00
Aroclor-1260-3	(3)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-4	(4)	7.11	7.11	7.01	7.21	0.00
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.76	8.76	8.66	8.86	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Continuing Calib Date: 01/29/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 16:49 Initial Calibration Time(s): 17:36 01:50

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.78	4.80	4.70	4.90	0.02
Aroclor-1016-2	(2)	4.80	4.82	4.72	4.92	0.02
Aroclor-1016-3	(3)	4.98	5.00	4.90	5.10	0.02
Aroclor-1016-4	(4)	5.02	5.04	4.94	5.14	0.02
Aroclor-1016-5	(5)	5.23	5.25	5.15	5.35	0.02
Aroclor-1260-1	(1)	6.27	6.29	6.19	6.39	0.02
Aroclor-1260-2	(2)	6.45	6.47	6.37	6.57	0.02
Aroclor-1260-3	(3)	6.61	6.63	6.53	6.73	0.02
Aroclor-1260-4	(4)	7.08	7.10	7.00	7.20	0.02
Aroclor-1260-5	(5)	7.32	7.34	7.24	7.44	0.02
Tetrachloro-m-xylene		3.70	3.72	3.62	3.82	0.02
Decachlorobiphenyl		8.71	8.73	8.63	8.83	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL02 Date Analyzed: 01/29/2025

Lab Sample No.: AR1660CCC500 Data File : PO109239.D Time Analyzed: 16:49

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.795	4.695	4.895	548.700	500.000	9.7
Aroclor-1016-2	4.815	4.714	4.914	549.830	500.000	10.0
Aroclor-1016-3	4.871	4.770	4.970	544.000	500.000	8.8
Aroclor-1016-4	4.992	4.891	5.091	546.500	500.000	9.3
Aroclor-1016-5	5.250	5.149	5.349	549.970	500.000	10.0
Aroclor-1260-1	6.292	6.190	6.390	541.430	500.000	8.3
Aroclor-1260-2	6.481	6.379	6.579	533.430	500.000	6.7
Aroclor-1260-3	6.850	6.747	6.947	540.540	500.000	8.1
Aroclor-1260-4	7.110	7.008	7.208	539.260	500.000	7.9
Aroclor-1260-5	7.352	7.249	7.449	539.520	500.000	7.9
Decachlorobiphenyl	8.763	8.658	8.858	53.320	50.000	6.6
Tetrachloro-m-xylene	3.700	3.600	3.800	54.500	50.000	9.0

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL02 Date Analyzed: 01/29/2025

Lab Sample No.: AR1660CCC500 Data File : PO109239.D Time Analyzed: 16:49

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.781	4.703	4.903	523.890	500.000	4.8
Aroclor-1016-2	4.801	4.722	4.922	545.010	500.000	9.0
Aroclor-1016-3	4.976	4.898	5.098	534.620	500.000	6.9
Aroclor-1016-4	5.018	4.940	5.140	524.610	500.000	4.9
Aroclor-1016-5	5.231	5.153	5.353	535.200	500.000	7.0
Aroclor-1260-1	6.266	6.186	6.386	525.330	500.000	5.1
Aroclor-1260-2	6.453	6.373	6.573	521.480	500.000	4.3
Aroclor-1260-3	6.607	6.527	6.727	522.180	500.000	4.4
Aroclor-1260-4	7.079	6.999	7.199	522.690	500.000	4.5
Aroclor-1260-5	7.319	7.239	7.439	522.200	500.000	4.4
Decachlorobiphenyl	8.714	8.633	8.833	49.630	50.000	-0.7
Tetrachloro-m-xylene	3.697	3.618	3.818	54.990	50.000	10.0

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 00:46 Initial Calibration Time(s): 17:36 01:50

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.80	4.80	4.70	4.90	0.00
Aroclor-1016-2	(2)	4.82	4.81	4.71	4.91	-0.01
Aroclor-1016-3	(3)	4.87	4.87	4.77	4.97	0.00
Aroclor-1016-4	(4)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-5	(5)	5.25	5.25	5.15	5.35	0.00
Aroclor-1260-1	(1)	6.29	6.29	6.19	6.39	0.00
Aroclor-1260-2	(2)	6.48	6.48	6.38	6.58	0.00
Aroclor-1260-3	(3)	6.85	6.85	6.75	6.95	0.00
Aroclor-1260-4	(4)	7.11	7.11	7.01	7.21	0.00
Aroclor-1260-5	(5)	7.35	7.35	7.25	7.45	0.00
Tetrachloro-m-xylene		3.70	3.70	3.60	3.80	0.00
Decachlorobiphenyl		8.76	8.76	8.66	8.86	0.00

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

Continuing Calib Date: 01/30/2025 Initial Calibration Date(s): 01/21/2025 01/22/2025

Continuing Calib Time: 00:46 Initial Calibration Time(s): 17:36 01:50

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.78	4.80	4.70	4.90	0.02
Aroclor-1016-2	(2)	4.80	4.82	4.72	4.92	0.02
Aroclor-1016-3	(3)	4.98	5.00	4.90	5.10	0.03
Aroclor-1016-4	(4)	5.02	5.04	4.94	5.14	0.02
Aroclor-1016-5	(5)	5.23	5.25	5.15	5.35	0.02
Aroclor-1260-1	(1)	6.27	6.29	6.19	6.39	0.03
Aroclor-1260-2	(2)	6.45	6.47	6.37	6.57	0.02
Aroclor-1260-3	(3)	6.61	6.63	6.53	6.73	0.02
Aroclor-1260-4	(4)	7.08	7.10	7.00	7.20	0.02
Aroclor-1260-5	(5)	7.32	7.34	7.24	7.44	0.02
Tetrachloro-m-xylene		3.70	3.72	3.62	3.82	0.02
Decachlorobiphenyl		8.71	8.73	8.63	8.83	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL03 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109254.D Time Analyzed: 00:46

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.795	4.695	4.895	505.990	500.000	1.2
Aroclor-1016-2	4.815	4.714	4.914	509.560	500.000	1.9
Aroclor-1016-3	4.871	4.770	4.970	498.380	500.000	-0.3
Aroclor-1016-4	4.992	4.891	5.091	501.440	500.000	0.3
Aroclor-1016-5	5.249	5.149	5.349	514.980	500.000	3.0
Aroclor-1260-1	6.292	6.190	6.390	453.860	500.000	-9.2
Aroclor-1260-2	6.481	6.379	6.579	431.160	500.000	-13.8
Aroclor-1260-3	6.849	6.747	6.947	415.340	500.000	-16.9
Aroclor-1260-4	7.109	7.008	7.208	437.080	500.000	-12.6
Aroclor-1260-5	7.350	7.249	7.449	451.440	500.000	-9.7
Decachlorobiphenyl	8.762	8.658	8.858	38.710	50.000	-22.6
Tetrachloro-m-xylene	3.700	3.600	3.800	50.770	50.000	1.5

CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 01/21/2025 01/21/2025

Client Sample No.: CCAL03 Date Analyzed: 01/30/2025

Lab Sample No.: AR1660CCC500 Data File : PO109254.D Time Analyzed: 00:46

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.780	4.703	4.903	533.530	500.000	6.7
Aroclor-1016-2	4.800	4.722	4.922	527.150	500.000	5.4
Aroclor-1016-3	4.975	4.898	5.098	529.220	500.000	5.8
Aroclor-1016-4	5.018	4.940	5.140	507.710	500.000	1.5
Aroclor-1016-5	5.231	5.153	5.353	546.030	500.000	9.2
Aroclor-1260-1	6.265	6.186	6.386	517.230	500.000	3.4
Aroclor-1260-2	6.452	6.373	6.573	499.300	500.000	-0.1
Aroclor-1260-3	6.605	6.527	6.727	481.950	500.000	-3.6
Aroclor-1260-4	7.077	6.999	7.199	450.300	500.000	-9.9
Aroclor-1260-5	7.318	7.239	7.439	446.240	500.000	-10.8
Decachlorobiphenyl	8.712	8.633	8.833	42.230	50.000	-15.5
Tetrachloro-m-xylene	3.696	3.618	3.818	54.730	50.000	9.5

Analytical Sequence

Client: RU2 Engineering, LLC	SDG No.: Q1207
Project: NYCDDC SANTWOBR Brooklyn Bridge BI	Instrument ID: ECD_O
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 01/21/2025 01/21/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	01/21/2025	17:18	PO108981.D	8.76	3.70
AR1660ICC1000	AR1660ICC1000	01/21/2025	17:36	PO108982.D	8.76	3.70
AR1660ICC750	AR1660ICC750	01/21/2025	17:54	PO108983.D	8.76	3.70
AR1660ICC500	AR1660ICC500	01/21/2025	18:13	PO108984.D	8.76	3.70
AR1660ICC250	AR1660ICC250	01/21/2025	18:31	PO108985.D	8.76	3.70
AR1660ICC050	AR1660ICC050	01/21/2025	18:49	PO108986.D	8.76	3.70
AR1221ICC500	AR1221ICC500	01/21/2025	19:07	PO108987.D	8.76	3.70
AR1232ICC500	AR1232ICC500	01/21/2025	19:26	PO108988.D	8.76	3.70
AR1242ICC1000	AR1242ICC1000	01/21/2025	19:44	PO108989.D	8.76	3.70
AR1242ICC750	AR1242ICC750	01/21/2025	20:02	PO108990.D	8.76	3.70
AR1242ICC500	AR1242ICC500	01/21/2025	20:21	PO108991.D	8.76	3.70
AR1242ICC250	AR1242ICC250	01/21/2025	20:39	PO108992.D	8.76	3.70
AR1242ICC050	AR1242ICC050	01/21/2025	20:57	PO108993.D	8.76	3.70
AR1248ICC1000	AR1248ICC1000	01/21/2025	21:16	PO108994.D	8.76	3.70
AR1248ICC750	AR1248ICC750	01/21/2025	21:34	PO108995.D	8.76	3.70
AR1248ICC500	AR1248ICC500	01/21/2025	21:52	PO108996.D	8.76	3.70
AR1248ICC250	AR1248ICC250	01/21/2025	22:10	PO108997.D	8.76	3.70
AR1248ICC050	AR1248ICC050	01/21/2025	22:29	PO108998.D	8.76	3.70
AR1254ICC1000	AR1254ICC1000	01/21/2025	22:47	PO108999.D	8.76	3.70
AR1254ICC750	AR1254ICC750	01/21/2025	23:05	PO109000.D	8.76	3.70
AR1254ICC500	AR1254ICC500	01/21/2025	23:23	PO109001.D	8.76	3.70
AR1254ICC250	AR1254ICC250	01/21/2025	23:42	PO109002.D	8.76	3.70
AR1254ICC050	AR1254ICC050	01/22/2025	00:00	PO109003.D	8.76	3.70
AR1262ICC500	AR1262ICC500	01/22/2025	00:18	PO109004.D	8.76	3.70
AR1268ICC1000	AR1268ICC1000	01/22/2025	00:37	PO109005.D	8.76	3.70
AR1268ICC750	AR1268ICC750	01/22/2025	00:55	PO109006.D	8.76	3.70
AR1268ICC500	AR1268ICC500	01/22/2025	01:13	PO109007.D	8.76	3.70
AR1268ICC250	AR1268ICC250	01/22/2025	01:31	PO109008.D	8.76	3.70
AR1268ICC050	AR1268ICC050	01/22/2025	01:50	PO109009.D	8.76	3.70
AR1660CCC500	AR1660CCC500	01/29/2025	11:53	PO109224.D	8.76	3.70
IBLK	IBLK	01/29/2025	13:04	PO109228.D	8.76	3.70
PB166333BL	PB166333BL	01/29/2025	15:45	PO109237.D	8.76	3.70
PB166333BS	PB166333BS	01/29/2025	16:02	PO109238.D	8.76	3.70
AR1660CCC500	AR1660CCC500	01/29/2025	16:49	PO109239.D	8.76	3.70
IBLK	IBLK	01/29/2025	18:02	PO109243.D	8.76	3.70
VNJ-236MS	Q1205-01MS	01/29/2025	18:37	PO109245.D	8.76	3.70
VNJ-236MSD	Q1205-01MSD	01/29/2025	18:55	PO109246.D	8.76	3.70
JPP-2.1-012725	Q1207-03	01/29/2025	19:49	PO109249.D	8.76	3.70
JPP-5.1-012725	Q1207-07	01/29/2025	20:07	PO109250.D	8.76	3.70
JPP-4.5-012725	Q1207-11	01/29/2025	20:26	PO109251.D	8.76	3.70
JPP-16.2-012725	Q1207-15	01/29/2025	20:44	PO109252.D	8.76	3.70
JPP-20.2-012725	Q1207-19	01/29/2025	21:01	PO109253.D	8.76	3.70

Analytical Sequence

AR1660CCC500	AR1660CCC500	01/30/2025	00:46	PO109254.D	8.76	3.70
I.BLK	I.BLK	01/30/2025	01:59	PO109258.D	8.76	3.70

Analytical Sequence

Client: RU2 Engineering, LLC	SDG No.: Q1207
Project: NYCDDC SANTWOBR Brooklyn Bridge BI	Instrument ID: ECD_O
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 01/21/2025 01/21/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	01/21/2025	17:18	PO108981.D	8.71	3.70
AR1660ICC1000	AR1660ICC1000	01/21/2025	17:36	PO108982.D	8.71	3.70
AR1660ICC750	AR1660ICC750	01/21/2025	17:54	PO108983.D	8.71	3.70
AR1660ICC500	AR1660ICC500	01/21/2025	18:13	PO108984.D	8.73	3.72
AR1660ICC250	AR1660ICC250	01/21/2025	18:31	PO108985.D	8.71	3.70
AR1660ICC050	AR1660ICC050	01/21/2025	18:49	PO108986.D	8.71	3.70
AR1221ICC500	AR1221ICC500	01/21/2025	19:07	PO108987.D	8.71	3.70
AR1232ICC500	AR1232ICC500	01/21/2025	19:26	PO108988.D	8.71	3.70
AR1242ICC1000	AR1242ICC1000	01/21/2025	19:44	PO108989.D	8.71	3.70
AR1242ICC750	AR1242ICC750	01/21/2025	20:02	PO108990.D	8.71	3.70
AR1242ICC500	AR1242ICC500	01/21/2025	20:21	PO108991.D	8.71	3.70
AR1242ICC250	AR1242ICC250	01/21/2025	20:39	PO108992.D	8.71	3.70
AR1242ICC050	AR1242ICC050	01/21/2025	20:57	PO108993.D	8.71	3.70
AR1248ICC1000	AR1248ICC1000	01/21/2025	21:16	PO108994.D	8.71	3.70
AR1248ICC750	AR1248ICC750	01/21/2025	21:34	PO108995.D	8.71	3.70
AR1248ICC500	AR1248ICC500	01/21/2025	21:52	PO108996.D	8.71	3.70
AR1248ICC250	AR1248ICC250	01/21/2025	22:10	PO108997.D	8.71	3.70
AR1248ICC050	AR1248ICC050	01/21/2025	22:29	PO108998.D	8.71	3.70
AR1254ICC1000	AR1254ICC1000	01/21/2025	22:47	PO108999.D	8.71	3.70
AR1254ICC750	AR1254ICC750	01/21/2025	23:05	PO109000.D	8.71	3.70
AR1254ICC500	AR1254ICC500	01/21/2025	23:23	PO109001.D	8.71	3.70
AR1254ICC250	AR1254ICC250	01/21/2025	23:42	PO109002.D	8.71	3.70
AR1254ICC050	AR1254ICC050	01/22/2025	00:00	PO109003.D	8.71	3.70
AR1262ICC500	AR1262ICC500	01/22/2025	00:18	PO109004.D	8.71	3.70
AR1268ICC1000	AR1268ICC1000	01/22/2025	00:37	PO109005.D	8.71	3.70
AR1268ICC750	AR1268ICC750	01/22/2025	00:55	PO109006.D	8.71	3.70
AR1268ICC500	AR1268ICC500	01/22/2025	01:13	PO109007.D	8.71	3.70
AR1268ICC250	AR1268ICC250	01/22/2025	01:31	PO109008.D	8.71	3.70
AR1268ICC050	AR1268ICC050	01/22/2025	01:50	PO109009.D	8.71	3.70
AR1660CCC500	AR1660CCC500	01/29/2025	11:53	PO109224.D	8.72	3.70
IBLK	IBLK	01/29/2025	13:04	PO109228.D	8.72	3.70
PB166333BL	PB166333BL	01/29/2025	15:45	PO109237.D	8.71	3.70
PB166333BS	PB166333BS	01/29/2025	16:02	PO109238.D	8.71	3.70
AR1660CCC500	AR1660CCC500	01/29/2025	16:49	PO109239.D	8.71	3.70
IBLK	IBLK	01/29/2025	18:02	PO109243.D	8.71	3.70
VNJ-236MS	Q1205-01MS	01/29/2025	18:37	PO109245.D	8.71	3.70
VNJ-236MSD	Q1205-01MSD	01/29/2025	18:55	PO109246.D	8.71	3.70
JPP-2.1-012725	Q1207-03	01/29/2025	19:49	PO109249.D	8.71	3.70
JPP-5.1-012725	Q1207-07	01/29/2025	20:07	PO109250.D	8.71	3.70
JPP-4.5-012725	Q1207-11	01/29/2025	20:26	PO109251.D	8.71	3.70
JPP-16.2-012725	Q1207-15	01/29/2025	20:44	PO109252.D	8.71	3.70
JPP-20.2-012725	Q1207-19	01/29/2025	21:01	PO109253.D	8.71	3.70

Analytical Sequence

AR1660CCC500	AR1660CCC500	01/30/2025	00:46	PO109254.D	8.71	3.70
I.BLK	I.BLK	01/30/2025	01:59	PO109258.D	8.71	3.70



QC SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166333BL	SDG No.:	Q1207
Lab Sample ID:	PB166333BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109237.D	1	01/29/25 08:55	01/29/25 15:45	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	17.0	U	3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	17.0	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	25.2		32 - 144	126%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.1		32 - 175	125%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >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

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D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/21/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/21/25
Client Sample ID:	PIBLK-PO108981.D	SDG No.:	Q1207
Lab Sample ID:	I.BLK-PO108981.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108981.D	1		01/21/25	PO012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		60 - 140	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.6		60 - 140	108%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	PIBLK-PO109228.D	SDG No.:	Q1207
Lab Sample ID:	I.BLK-PO109228.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109228.D	1		01/29/25	Po012925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	24.3		60 - 140	121%	SPK: 20
2051-24-3	Decachlorobiphenyl	24.0		60 - 140	120%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	PIBLK-PO109243.D	SDG No.:	Q1207
Lab Sample ID:	I.BLK-PO109243.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109243.D	1		01/29/25	Po012925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.7		60 - 140	118%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.6		60 - 140	118%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/30/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	PIBLK-PO109258.D	SDG No.:	Q1207
Lab Sample ID:	I.BLK-PO109258.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109258.D	1		01/30/25	Po012925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.50	U	0.15	0.50	ug/L
11104-28-2	Aroclor-1221	0.50	U	0.23	0.50	ug/L
11141-16-5	Aroclor-1232	0.50	U	0.37	0.50	ug/L
53469-21-9	Aroclor-1242	0.50	U	0.16	0.50	ug/L
12672-29-6	Aroclor-1248	0.50	U	0.12	0.50	ug/L
11097-69-1	Aroclor-1254	0.50	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.50	U	0.15	0.50	ug/L
37324-23-5	Aroclor-1262	0.50	U	0.14	0.50	ug/L
11100-14-4	Aroclor-1268	0.50	U	0.12	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.4		60 - 140	117%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.9		60 - 140	94%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166333BS	SDG No.:	Q1207
Lab Sample ID:	PB166333BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109238.D	1	01/29/25 08:55	01/29/25 16:02	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	169		3.40	17.0	ug/kg
11104-28-2	Aroclor-1221	17.0	U	6.40	17.0	ug/kg
11141-16-5	Aroclor-1232	17.0	U	3.40	17.0	ug/kg
53469-21-9	Aroclor-1242	17.0	U	3.40	17.0	ug/kg
12672-29-6	Aroclor-1248	17.0	U	7.90	17.0	ug/kg
11097-69-1	Aroclor-1254	17.0	U	2.70	17.0	ug/kg
37324-23-5	Aroclor-1262	17.0	U	4.60	17.0	ug/kg
11100-14-4	Aroclor-1268	17.0	U	3.40	17.0	ug/kg
11096-82-5	Aroclor-1260	159		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	23.9		32 - 144	120%	SPK: 20
2051-24-3	Decachlorobiphenyl	25.7		32 - 175	129%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	VNJ-236MS	SDG No.:	Q1207
Lab Sample ID:	Q1205-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109245.D	1	01/29/25 08:55	01/29/25 18:37	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	182		3.90	19.5	ug/kg
11104-28-2	Aroclor-1221	19.5	U	7.30	19.5	ug/kg
11141-16-5	Aroclor-1232	19.5	U	3.90	19.5	ug/kg
53469-21-9	Aroclor-1242	19.5	U	3.90	19.5	ug/kg
12672-29-6	Aroclor-1248	19.5	U	9.00	19.5	ug/kg
11097-69-1	Aroclor-1254	19.5	U	3.10	19.5	ug/kg
37324-23-5	Aroclor-1262	19.5	U	5.20	19.5	ug/kg
11100-14-4	Aroclor-1268	19.5	U	3.90	19.5	ug/kg
11096-82-5	Aroclor-1260	177		3.30	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.5		32 - 144	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.1		32 - 175	80%	SPK: 20

Comments:

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	VNJ-236MSD	SDG No.:	Q1207
Lab Sample ID:	Q1205-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO109246.D	1	01/29/25 08:55	01/29/25 18:55	PB166333

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	178		3.90	19.4	ug/kg
11104-28-2	Aroclor-1221	19.4	U	7.30	19.4	ug/kg
11141-16-5	Aroclor-1232	19.4	U	3.90	19.4	ug/kg
53469-21-9	Aroclor-1242	19.4	U	3.90	19.4	ug/kg
12672-29-6	Aroclor-1248	19.4	U	9.00	19.4	ug/kg
11097-69-1	Aroclor-1254	19.4	U	3.10	19.4	ug/kg
37324-23-5	Aroclor-1262	19.4	U	5.20	19.4	ug/kg
11100-14-4	Aroclor-1268	19.4	U	3.90	19.4	ug/kg
11096-82-5	Aroclor-1260	174		3.30	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		32 - 144	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.5		32 - 175	77%	SPK: 20

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