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

LAB CHRONICLE

OrderID:	Q1215	**OrderDate:**	1/29/2025 11:20:00 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
Q1215-01	**JPP-29.1-012825**	**SOIL**			**01/28/25**			**01/29/25**
			Diesel Range Organics	8015D		01/30/25	01/30/25	
			Gasoline Range Organics	8015D			01/30/25	
Q1215-03	**JPP-29.1-012825**	**SOIL**			**01/28/25**			**01/29/25**
			PCB	8082A		01/30/25	01/30/25	
			Pesticide-TCL	8081B		01/30/25	02/01/25	
Q1215-05	**JPP-29.2-012825**	**SOIL**			**01/28/25**			**01/29/25**
			Diesel Range Organics	8015D		01/30/25	01/30/25	
			Gasoline Range Organics	8015D			01/30/25	
Q1215-07	**JPP-29.2-012825**	**SOIL**			**01/28/25**			**01/29/25**
			PCB	8082A		01/30/25	01/30/25	
			Pesticide-TCL	8081B		01/30/25	01/30/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1215 **Order ID:** Q1215

Client: RU2 Engineering, LLC **Project ID:** NYCDDC SANTWOBR Brooklyn Bri

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : JPP-29.1-012825								
Q1215-03	JPP-29.1-012825	SOIL	4,4-DDD	1.50	JP	0.21	1.90	ug/kg
			Total Concentration:	**1.500**				
Client ID : JPP-29.2-012825								
Q1215-07	JPP-29.2-012825	SOIL	alpha-Chlordane	0.52	JP	0.19	1.90	ug/kg
			Total Concentration:	**0.520**				

SAMPLE DATA

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-03	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093972.D	1	01/30/25 08:30	02/01/25 01:10	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	1.90	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	1.90	U	0.55	1.90	ug/kg
319-86-8	delta-BHC	1.90	U	0.53	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	1.90	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	1.90	U	0.19	1.90	ug/kg
309-00-2	Aldrin	1.90	U	0.16	1.90	ug/kg
1024-57-3	Heptachlor epoxide	1.90	U	0.26	1.90	ug/kg
959-98-8	Endosulfan I	1.90	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	1.90	U	0.17	1.90	ug/kg
72-55-9	4,4-DDE	1.90	U	0.15	1.90	ug/kg
72-20-8	Endrin	1.90	U	0.18	1.90	ug/kg
33213-65-9	Endosulfan II	1.90	U	0.34	1.90	ug/kg
72-54-8	4,4-DDD	1.50	JP	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	1.90	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	1.90	U	0.19	1.90	ug/kg
72-43-5	Methoxychlor	1.90	U	0.43	1.90	ug/kg
53494-70-5	Endrin ketone	1.90	U	0.25	1.90	ug/kg
7421-93-4	Endrin aldehyde	1.90	U	0.44	1.90	ug/kg
5103-71-9	alpha-Chlordane	1.90	U	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	1.90	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	37.1	U	5.90	37.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	17.0		10 - 148	85%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.6		10 - 159	93%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-03	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093972.D	1	01/30/25 08:30	02/01/25 01:10	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.2-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-07	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093909.D	1	01/30/25 08:30	01/30/25 19:58	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	1.90	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	1.90	U	0.55	1.90	ug/kg
319-86-8	delta-BHC	1.90	U	0.53	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	1.90	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	1.90	U	0.19	1.90	ug/kg
309-00-2	Aldrin	1.90	U	0.16	1.90	ug/kg
1024-57-3	Heptachlor epoxide	1.90	U	0.26	1.90	ug/kg
959-98-8	Endosulfan I	1.90	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	1.90	U	0.17	1.90	ug/kg
72-55-9	4,4-DDE	1.90	U	0.15	1.90	ug/kg
72-20-8	Endrin	1.90	U	0.18	1.90	ug/kg
33213-65-9	Endosulfan II	1.90	U	0.34	1.90	ug/kg
72-54-8	4,4-DDD	1.90	U	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	1.90	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	1.90	U	0.19	1.90	ug/kg
72-43-5	Methoxychlor	1.90	U	0.43	1.90	ug/kg
53494-70-5	Endrin ketone	1.90	U	0.25	1.90	ug/kg
7421-93-4	Endrin aldehyde	1.90	U	0.44	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.52	JP	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	1.90	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	37.1	U	5.90	37.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.4		10 - 148	72%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.6		10 - 159	68%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.2-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-07	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093909.D	1	01/30/25 08:30	01/30/25 19:58	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Surrogate Summary

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL093725.D	PIBLK-PL093725.D	Decachlorobiphenyl	1	20	22.1	111		43	140
		Tetrachloro-m-xylene	1	20	20.8	104		77	126
		Decachlorobiphenyl	2	20	21.9	109		43	140
		Tetrachloro-m-xylene	2	20	20.5	103		77	126
I.BLK-PL093904.D	PIBLK-PL093904.D	Decachlorobiphenyl	1	20	20.2	101		43	140
		Tetrachloro-m-xylene	1	20	19.1	96		77	126
		Decachlorobiphenyl	2	20	16.0	80		43	140
		Tetrachloro-m-xylene	2	20	18.6	93		77	126
PB166359BL	PB166359BL	Decachlorobiphenyl	1	20	23.6	118		10	148
		Tetrachloro-m-xylene	1	20	21.1	106		10	159
		Decachlorobiphenyl	2	20	22.5	112		10	148
		Tetrachloro-m-xylene	2	20	21.6	108		10	159
PB166359BS	PB166359BS	Decachlorobiphenyl	1	20	23.4	117		10	148
		Tetrachloro-m-xylene	1	20	20.6	103		10	159
		Decachlorobiphenyl	2	20	22.0	110		10	148
		Tetrachloro-m-xylene	2	20	20.0	100		10	159
Q1215-07	JPP-29.2-012825	Decachlorobiphenyl	1	20	14.4	72		10	148
		Tetrachloro-m-xylene	1	20	13.1	66		10	159
		Decachlorobiphenyl	2	20	13.2	66		10	148
		Tetrachloro-m-xylene	2	20	13.6	68		10	159
I.BLK-PL093917.D	PIBLK-PL093917.D	Decachlorobiphenyl	1	20	21.2	106		43	140
		Tetrachloro-m-xylene	1	20	19.3	96		77	126
		Decachlorobiphenyl	2	20	18.1	90		43	140
		Tetrachloro-m-xylene	2	20	18.6	93		77	126
I.BLK-PL093970.D	PIBLK-PL093970.D	Decachlorobiphenyl	1	20	19.3	96		43	140
		Tetrachloro-m-xylene	1	20	21.3	107		77	126
		Decachlorobiphenyl	2	20	16.1	81		43	140
		Tetrachloro-m-xylene	2	20	20.0	100		77	126
Q1215-03	JPP-29.1-012825	Decachlorobiphenyl	1	20	15.9	80		10	148
		Tetrachloro-m-xylene	1	20	16.6	83		10	159
		Decachlorobiphenyl	2	20	17.0	85		10	148
		Tetrachloro-m-xylene	2	20	18.6	93		10	159
Q1215-03MS	JPP-29.1-012825MS	Decachlorobiphenyl	1	20	16.0	80		10	148
		Tetrachloro-m-xylene	1	20	14.9	75		10	159
		Decachlorobiphenyl	2	20	15.1	76		10	148
		Tetrachloro-m-xylene	2	20	16.8	84		10	159
Q1215-03MSD	JPP-29.1-012825MSD	Decachlorobiphenyl	1	20	15.1	75		10	148
		Tetrachloro-m-xylene	1	20	14.5	73		10	159
		Decachlorobiphenyl	2	20	14.5	72		10	148
		Tetrachloro-m-xylene	2	20	16.6	83		10	159
I.BLK-PL093977.D	PIBLK-PL093977.D	Decachlorobiphenyl	1	20	18.9	94		43	140

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Surrogate Summary

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL093977.D	PIBLK-PL093977.D	Tetrachloro-m-xylene	1	20	21.9	109		77	126
		Decachlorobiphenyl	2	20	18.1	91		43	140
		Tetrachloro-m-xylene	2	20	21.0	105		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: 8081B **DataFile :** PL093973.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**JPP-29.1-012825MS**											
Q1215-03MS	alpha-BHC	18.73	0	17.8	ug/kg	95				60	144	
	beta-BHC	18.73	0	17.0	ug/kg	91				54	143	
	delta-BHC	18.73	0	17.6	ug/kg	94				47	144	
	gamma-BHC (Lindane)	18.73	0	18.7	ug/kg	100				61	140	
	Heptachlor	18.73	0	17.8	ug/kg	95				63	135	
	Aldrin	18.73	0	17.0	ug/kg	91				49	139	
	Heptachlor epoxide	18.73	0	17.1	ug/kg	91				32	180	
	Endosulfan I	18.73	0	16.7	ug/kg	89				56	142	
	Dieldrin	18.73	0	16.7	ug/kg	89				47	161	
	4,4'-DDE	18.73	0	17.6	ug/kg	94				55	136	
	Endrin	18.73	0	17.7	ug/kg	95				57	139	
	Endosulfan II	18.73	0	16.6	ug/kg	89				40	163	
	4,4'-DDD	18.73	1.5	19.0	ug/kg	93				37	192	
	Endosulfan sulfate	18.73	0	15.7	ug/kg	84				62	139	
	4,4'-DDT	18.73	0	17.1	ug/kg	91				51	146	
	Methoxychlor	18.73	0	16.3	ug/kg	87				54	136	
	Endrin ketone	18.73	0	15.7	ug/kg	84				60	129	
	Endrin aldehyde	18.73	0	15.1	ug/kg	81				59	132	
	alpha-Chlordane	18.73	0	18.2	ug/kg	97				30	192	
	gamma-Chlordane	18.73	0	20.1	ug/kg	107				44	175	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: 8081B **DataFile :** PL093974.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**JPP-29.1-012825MSD**											
Q1215-03MSD	alpha-BHC	18.72	0	17.6	ug/kg	94		1		60	144	20
	beta-BHC	18.72	0	18.6	ug/kg	99		8		54	143	20
	delta-BHC	18.72	0	17.5	ug/kg	93		1		47	144	20
	gamma-BHC (Lindane)	18.72	0	18.5	ug/kg	99		1		61	140	20
	Heptachlor	18.72	0	17.5	ug/kg	93		2		63	135	20
	Aldrin	18.72	0	16.7	ug/kg	89		2		49	139	20
	Heptachlor epoxide	18.72	0	16.8	ug/kg	90		1		32	180	20
	Endosulfan I	18.72	0	15.9	ug/kg	85		5		56	142	20
	Dieldrin	18.72	0	16.3	ug/kg	87		2		47	161	20
	4,4'-DDE	18.72	0	16.4	ug/kg	88		7		55	136	20
	Endrin	18.72	0	17.5	ug/kg	93		2		57	139	20
	Endosulfan II	18.72	0	16.2	ug/kg	87		2		40	163	20
	4,4'-DDD	18.72	1.5	18.7	ug/kg	92		1		37	192	20
	Endosulfan sulfate	18.72	0	15.4	ug/kg	82		2		62	139	20
	4,4'-DDT	18.72	0	16.3	ug/kg	87		4		51	146	20
	Methoxychlor	18.72	0	15.8	ug/kg	84		4		54	136	20
	Endrin ketone	18.72	0	15.0	ug/kg	80		5		60	129	20
	Endrin aldehyde	18.72	0	14.7	ug/kg	79		3		59	132	20
	alpha-Chlordane	18.72	0	17.6	ug/kg	94		3		30	192	20
	gamma-Chlordane	18.72	0	19.6	ug/kg	105		2		44	175	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: 8081B **Datafile :** PL093908.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166359BS	alpha-BHC	16.65	16.6	ug/kg	100				84	123	
	beta-BHC	16.65	16.9	ug/kg	102				82	123	
	delta-BHC	16.65	16.4	ug/kg	98				83	126	
	gamma-BHC (Lindane)	16.65	16.3	ug/kg	98				83	125	
	Heptachlor	16.65	16.6	ug/kg	100				83	122	
	Aldrin	16.65	16.5	ug/kg	99				82	124	
	Heptachlor epoxide	16.65	17.1	ug/kg	103				83	120	
	Endosulfan I	16.65	17.6	ug/kg	106				81	124	
	Dieldrin	16.65	17.3	ug/kg	104				85	121	
	4,4'-DDE	16.65	18.2	ug/kg	109				81	123	
	Endrin	16.65	16.1	ug/kg	97				76	130	
	Endosulfan II	16.65	17.6	ug/kg	106				80	125	
	4,4'-DDD	16.65	19.6	ug/kg	118				80	131	
	Endosulfan sulfate	16.65	17.5	ug/kg	105				81	122	
	4,4'-DDT	16.65	16.6	ug/kg	100				70	129	
	Methoxychlor	16.65	16.3	ug/kg	98				60	119	
	Endrin ketone	16.65	17.8	ug/kg	107				77	132	
	Endrin aldehyde	16.65	16.9	ug/kg	102				79	124	
	alpha-Chlordane	16.65	17.6	ug/kg	106				84	120	
	gamma-Chlordane	16.65	17.8	ug/kg	107				83	122	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166359BL

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG NO.: Q1215

Lab Sample ID: PB166359BL Lab File ID: PL093907.D

Matrix: (soil/water) Solid Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N Date Extracted: 01/30/2025

Date Analyzed (1): 01/30/2025 Date Analyzed (2): 01/30/2025

Time Analyzed (1): 19:32 Time Analyzed (2): 19:32

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

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
PB166359BS	PB166359BS	PL093908.D	01/30/2025	01/30/2025
JPP-29.2-012825	Q1215-07	PL093909.D	01/30/2025	01/30/2025
JPP-29.1-012825	Q1215-03	PL093972.D	02/01/2025	02/01/2025
JPP-29.1-012825MS	Q1215-03MS	PL093973.D	02/01/2025	02/01/2025
JPP-29.1-012825MSD	Q1215-03MSD	PL093974.D	02/01/2025	02/01/2025

COMMENTS:

QC SAMPLE DATA

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166359BL	SDG No.:	Q1215
Lab Sample ID:	PB166359BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093907.D	1	01/30/25 08:30	01/30/25 19:32	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	1.70	U	0.18	1.70	ug/kg
319-85-7	beta-BHC	1.70	U	0.49	1.70	ug/kg
319-86-8	delta-BHC	1.70	U	0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	1.70	U	0.19	1.70	ug/kg
76-44-8	Heptachlor	1.70	U	0.17	1.70	ug/kg
309-00-2	Aldrin	1.70	U	0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	1.70	U	0.23	1.70	ug/kg
959-98-8	Endosulfan I	1.70	U	0.17	1.70	ug/kg
60-57-1	Dieldrin	1.70	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	1.70	U	0.13	1.70	ug/kg
72-20-8	Endrin	1.70	U	0.16	1.70	ug/kg
33213-65-9	Endosulfan II	1.70	U	0.30	1.70	ug/kg
72-54-8	4,4-DDD	1.70	U	0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	1.70	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	1.70	U	0.17	1.70	ug/kg
72-43-5	Methoxychlor	1.70	U	0.38	1.70	ug/kg
53494-70-5	Endrin ketone	1.70	U	0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	1.70	U	0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	1.70	U	0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	1.70	U	0.19	1.70	ug/kg
8001-35-2	Toxaphene	33.0	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.6		10 - 148	118%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		10 - 159	108%	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:	PB166359BL	SDG No.:	Q1215
Lab Sample ID:	PB166359BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093907.D	1	01/30/25 08:30	01/30/25 19:32	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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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-PL093725.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093725.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093725.D	1		01/21/25	PL012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.1		43 - 140	111%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		77 - 126	104%	SPK: 20

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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-PL093725.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093725.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093725.D	1		01/21/25	PL012125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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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-PL093904.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093904.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093904.D	1		01/30/25	pl013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.2		43 - 140	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.1		77 - 126	96%	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-PL093904.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093904.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093904.D	1		01/30/25	pl013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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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-PL093917.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093917.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093917.D	1		01/30/25	pl013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		43 - 140	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		77 - 126	96%	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-PL093917.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093917.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093917.D	1		01/30/25	pl013025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093970.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093970.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093970.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		43 - 140	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		77 - 126	107%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PIBLK-PL093970.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093970.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093970.D	1		01/31/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	02/01/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	02/01/25
Client Sample ID:	PIBLK-PL093977.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093977.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093977.D	1		02/01/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.050	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.050	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.050	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.050	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.050	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.050	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.050	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.050	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.050	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.050	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.050	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.050	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.050	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.050	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.050	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.050	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.050	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.050	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.050	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	1.00	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.9		43 - 140	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.9		77 - 126	109%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	02/01/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	02/01/25
Client Sample ID:	PIBLK-PL093977.D	SDG No.:	Q1215
Lab Sample ID:	I.BLK-PL093977.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093977.D	1		02/01/25	pl013125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166359BS	SDG No.:	Q1215
Lab Sample ID:	PB166359BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093908.D	1	01/30/25 08:30	01/30/25 19:45	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.6		0.18	1.70	ug/kg
319-85-7	beta-BHC	16.9		0.49	1.70	ug/kg
319-86-8	delta-BHC	16.4		0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.3		0.19	1.70	ug/kg
76-44-8	Heptachlor	16.6		0.17	1.70	ug/kg
309-00-2	Aldrin	16.5		0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	17.1		0.23	1.70	ug/kg
959-98-8	Endosulfan I	17.6		0.17	1.70	ug/kg
60-57-1	Dieldrin	17.3		0.15	1.70	ug/kg
72-55-9	4,4-DDE	18.2		0.13	1.70	ug/kg
72-20-8	Endrin	16.1		0.16	1.70	ug/kg
33213-65-9	Endosulfan II	17.6		0.30	1.70	ug/kg
72-54-8	4,4-DDD	19.6		0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	17.5		0.13	1.70	ug/kg
50-29-3	4,4-DDT	16.6		0.17	1.70	ug/kg
72-43-5	Methoxychlor	16.3		0.38	1.70	ug/kg
53494-70-5	Endrin ketone	17.8		0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	16.9		0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	17.6		0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	17.8		0.19	1.70	ug/kg
8001-35-2	Toxaphene	33.0	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.4		10 - 148	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		10 - 159	103%	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:	PB166359BS	SDG No.:	Q1215
Lab Sample ID:	PB166359BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093908.D	1	01/30/25 08:30	01/30/25 19:45	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825MS	SDG No.:	Q1215
Lab Sample ID:	Q1215-03MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093973.D	1	01/30/25 08:30	02/01/25 01:24	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.8		0.20	1.90	ug/kg
319-85-7	beta-BHC	17.0		0.55	1.90	ug/kg
319-86-8	delta-BHC	17.6		0.53	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	18.7		0.21	1.90	ug/kg
76-44-8	Heptachlor	17.8		0.19	1.90	ug/kg
309-00-2	Aldrin	17.0		0.16	1.90	ug/kg
1024-57-3	Heptachlor epoxide	17.1		0.26	1.90	ug/kg
959-98-8	Endosulfan I	16.7	P	0.19	1.90	ug/kg
60-57-1	Dieldrin	16.7		0.17	1.90	ug/kg
72-55-9	4,4-DDE	17.6	P	0.15	1.90	ug/kg
72-20-8	Endrin	17.7		0.18	1.90	ug/kg
33213-65-9	Endosulfan II	16.6		0.34	1.90	ug/kg
72-54-8	4,4-DDD	19.0		0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	15.7		0.15	1.90	ug/kg
50-29-3	4,4-DDT	17.1		0.19	1.90	ug/kg
72-43-5	Methoxychlor	16.3		0.43	1.90	ug/kg
53494-70-5	Endrin ketone	15.7		0.25	1.90	ug/kg
7421-93-4	Endrin aldehyde	15.1		0.44	1.90	ug/kg
5103-71-9	alpha-Chlordane	18.2		0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	20.1		0.21	1.90	ug/kg
8001-35-2	Toxaphene	37.1	U	5.90	37.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.0		10 - 148	80%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.8		10 - 159	84%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825MS	SDG No.:	Q1215
Lab Sample ID:	Q1215-03MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093973.D	1	01/30/25 08:30	02/01/25 01:24	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825MSD	SDG No.:	Q1215
Lab Sample ID:	Q1215-03MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093974.D	1	01/30/25 08:30	02/01/25 01:37	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.6		0.20	1.90	ug/kg
319-85-7	beta-BHC	18.6	P	0.55	1.90	ug/kg
319-86-8	delta-BHC	17.5		0.53	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	18.5		0.21	1.90	ug/kg
76-44-8	Heptachlor	17.5		0.19	1.90	ug/kg
309-00-2	Aldrin	16.7		0.16	1.90	ug/kg
1024-57-3	Heptachlor epoxide	16.8		0.26	1.90	ug/kg
959-98-8	Endosulfan I	15.9	P	0.19	1.90	ug/kg
60-57-1	Dieldrin	16.3		0.17	1.90	ug/kg
72-55-9	4,4-DDE	16.4	P	0.15	1.90	ug/kg
72-20-8	Endrin	17.5		0.18	1.90	ug/kg
33213-65-9	Endosulfan II	16.2		0.34	1.90	ug/kg
72-54-8	4,4-DDD	18.7		0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	15.4		0.15	1.90	ug/kg
50-29-3	4,4-DDT	16.3		0.19	1.90	ug/kg
72-43-5	Methoxychlor	15.8		0.43	1.90	ug/kg
53494-70-5	Endrin ketone	15.0		0.25	1.90	ug/kg
7421-93-4	Endrin aldehyde	14.7		0.44	1.90	ug/kg
5103-71-9	alpha-Chlordane	17.6		0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	19.6		0.21	1.90	ug/kg
8001-35-2	Toxaphene	37.1	U	5.90	37.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.1		10 - 148	75%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.6		10 - 159	83%	SPK: 20

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Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825MSD	SDG No.:	Q1215
Lab Sample ID:	Q1215-03MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.8 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093974.D	1	01/30/25 08:30	02/01/25 01:37	PB166359

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Instrument ID: ECD_L **Calibration Date(s):** 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: RT 100 = PL093728.D RT 075 = PL093729.D

RT 050 = PL093730.D RT 025 = PL093731.D RT 005 = PL093732.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.26	5.26	5.26	5.26	5.26	5.26	5.16	5.36
alpha-BHC	4.00	4.00	4.00	4.00	3.99	3.99	3.89	4.09
alpha-Chlordane	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
beta-BHC	4.53	4.53	4.53	4.53	4.53	4.53	4.43	4.63
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
delta-BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Endosulfan I	6.07	6.07	6.07	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26
Endrin	6.57	6.57	6.57	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Heptachlor	4.92	4.92	4.91	4.91	4.91	4.91	4.81	5.01
Heptachlor epoxide	5.68	5.68	5.68	5.68	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Instrument ID: ECD_L **Calibration Date(s):** 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: RT 100 = PL093728.D RT 075 = PL093729.D

RT 050 = PL093730.D RT 025 = PL093731.D RT 005 = PL093732.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.79	5.78	5.78	5.78	5.78	5.78	5.68	5.88
4,4'-DDE	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
4,4'-DDT	6.04	6.03	6.03	6.03	6.03	6.03	5.93	6.13
Aldrin	4.23	4.23	4.23	4.22	4.22	4.22	4.12	4.32
alpha-BHC	3.28	3.28	3.28	3.28	3.28	3.28	3.18	3.38
alpha-Chlordane	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
beta-BHC	3.91	3.91	3.91	3.91	3.91	3.91	3.81	4.01
Decachlorobiphenyl	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
delta-BHC	4.14	4.14	4.14	4.14	4.13	4.14	4.04	4.24
Dieldrin	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Endosulfan I	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Endosulfan II	5.93	5.93	5.93	5.93	5.93	5.93	5.83	6.03
Endosulfan sulfate	6.33	6.33	6.33	6.33	6.33	6.33	6.23	6.43
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Endrin aldehyde	6.11	6.11	6.11	6.11	6.11	6.11	6.01	6.21
Endrin ketone	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
gamma-Chlordane	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Heptachlor	3.95	3.95	3.95	3.95	3.94	3.94	3.84	4.04
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.61	6.61	6.61	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Instrument ID: ECD_L

Calibration Date(s): 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: **CF 100 =** PL093728.D **CF 075 =** PL093729.D

CF 050 = PL093730.D **CF 025 =** PL093731.D **CF 005 =** PL093732.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1660930000	1679650000	1932670000	1802720000	2426830000	1900560000	17
4,4'-DDE	2179870000	2169930000	2489080000	2321590000	3012520000	2434600000	14
4,4'-DDT	1755570000	1766710000	2016720000	1907120000	2414170000	1972060000	14
Aldrin	2924220000	2896750000	3292630000	3099660000	4146570000	3271970000	16
alpha-BHC	3537700000	3490280000	3918110000	3562830000	4660310000	3833850000	13
alpha-Chlordane	2458070000	2458490000	2788200000	2666580000	3570690000	2788400000	16
beta-BHC	1393460000	1394440000	1618290000	1508890000	2121530000	1607320000	19
Decachlorobiphenyl	1768480000	1816480000	2098320000	2018470000	2757820000	2091910000	19
delta-BHC	3233860000	3194550000	3605880000	3303370000	4188780000	3505290000	12
Dieldrin	2456580000	2440810000	2788190000	2639340000	3554340000	2775850000	17
Endosulfan I	2304400000	2298550000	2637060000	2528610000	3445650000	2642860000	18
Endosulfan II	2084130000	2100600000	2413950000	2287820000	3160260000	2409350000	18
Endosulfan sulfate	1923100000	1945070000	2248580000	2190510000	3011450000	2263740000	20
Endrin	2079430000	2060990000	2363220000	2218560000	3001890000	2344820000	17
Endrin aldehyde	1673120000	1696040000	1958970000	1896570000	2495580000	1944060000	17
Endrin ketone	2196850000	2205550000	2539700000	2413910000	3257130000	2522630000	17
gamma-BHC (Lindane)	3375960000	3339350000	3767250000	3460830000	4470850000	3682850000	13
gamma-Chlordane	2455830000	2471830000	2815630000	2678390000	3515170000	2787370000	16
Heptachlor	2922500000	2901690000	3325290000	3144100000	4093120000	3277340000	15
Heptachlor epoxide	2568680000	2575960000	2953630000	2835830000	3935020000	2973820000	19
Methoxychlor	907284000	922109000	1080370000	1020090000	1287130000	1043400000	15
Tetrachloro-m-xylene	2397870000	2402980000	2740040000	2595500000	3327420000	2692760000	14

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Instrument ID: ECD_L

Calibration Date(s): 01/21/2025 01/21/2025

Calibration Times: 10:57 11:51

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

LAB FILE ID: **CF 100 =** PL093728.D **CF 075 =** PL093729.D

CF 050 = PL093730.D **CF 025 =** PL093731.D **CF 005 =** PL093732.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3134000000	3054730000	3379160000	2910470000	3304320000	3156540000	6
4,4'-DDE	3891920000	3807640000	4253650000	3749010000	4345130000	4009470000	7
4,4'-DDT	3270010000	3177800000	3542860000	3046890000	3232670000	3254050000	6
Aldrin	4482990000	4370810000	4856520000	4222470000	4876190000	4561800000	6
alpha-BHC	4914190000	4768640000	5271080000	4480730000	5010260000	4888980000	6
alpha-Chlordane	4056970000	3962110000	4424110000	3914810000	4574820000	4186560000	7
beta-BHC	1863440000	1842720000	2072180000	1889740000	2319100000	1997440000	10
Decachlorobiphenyl	3226690000	3193800000	3627020000	3320620000	4152210000	3504070000	11
delta-BHC	4741230000	4607910000	5098810000	4368820000	4939430000	4751240000	6
Dieldrin	4189300000	4076770000	4553570000	3958830000	4699760000	4295650000	7
Endosulfan I	3734100000	3661580000	4099030000	3635320000	4254550000	3876920000	7
Endosulfan II	3553260000	3487640000	3912960000	3484510000	4080760000	3703830000	7
Endosulfan sulfate	3408630000	3353240000	3757030000	3348270000	3963240000	3566080000	8
Endrin	3607760000	3481170000	3870730000	3406140000	4097610000	3692680000	8
Endrin aldehyde	2861460000	2820180000	3183430000	2892290000	3465840000	3044640000	9
Endrin ketone	3965120000	3881890000	4400080000	3907370000	4821740000	4195240000	10
gamma-BHC (Lindane)	4713370000	4597010000	5084610000	4384810000	4926270000	4741210000	6
gamma-Chlordane	4137240000	4016860000	4483010000	3935490000	4615500000	4237620000	7
Heptachlor	4505180000	4413750000	4924840000	4345980000	5084220000	4654790000	7
Heptachlor epoxide	4026840000	3946880000	4424170000	3927960000	4575440000	4180260000	7
Methoxychlor	1651870000	1634200000	1870410000	1643810000	2140390000	1788140000	12
Tetrachloro-m-xylene	3101220000	3058550000	3437230000	3066200000	3657590000	3264160000	8

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Instrument ID: ECD_L **Date(s) Analyzed:** 01/21/2025 01/21/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	23446000
		2	6.44	6.34	6.54	14767200
		3	7.06	6.96	7.16	75896000
		4	7.15	7.05	7.25	57345100
		5	7.93	7.83	8.03	43067100

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Instrument ID: ECD_L **Date(s) Analyzed:** 01/21/2025 01/21/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.00	4.90	5.10	27057100
		2	5.33	5.23	5.43	23947200
		3	5.68	5.58	5.78	24726400
		4	6.60	6.50	6.70	84987200
		5	7.04	6.94	7.14	80238300

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Continuing Calib Time: 19:06 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.52	4.53	4.43	4.63	0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Continuing Calib Time: 19:06 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.13	4.14	4.04	4.24	0.01
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.94	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.01
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL01 **Date Analyzed:** 01/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093906.D **Time Analyzed:** 19:06

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.708	6.608	6.808	51.280	50.000	2.6
4,4'-DDE	6.190	6.091	6.291	47.710	50.000	-4.6
4,4'-DDT	7.021	6.922	7.122	43.720	50.000	-12.6
Aldrin	5.255	5.156	5.356	44.150	50.000	-11.7
alpha-BHC	3.993	3.895	4.095	45.670	50.000	-8.7
alpha-Chlordane	6.017	5.917	6.117	45.590	50.000	-8.8
beta-BHC	4.524	4.425	4.625	46.550	50.000	-6.9
Decachlorobiphenyl	9.053	8.953	9.153	45.970	50.000	-8.1
delta-BHC	4.771	4.672	4.872	45.080	50.000	-9.8
Dieldrin	6.343	6.243	6.443	44.310	50.000	-11.4
Endosulfan I	6.067	5.967	6.167	44.670	50.000	-10.7
Endosulfan II	6.792	6.692	6.892	44.900	50.000	-10.2
Endosulfan sulfate	7.157	7.057	7.257	44.430	50.000	-11.1
Endrin	6.571	6.472	6.672	41.650	50.000	-16.7
Endrin aldehyde	6.922	6.823	7.023	44.090	50.000	-11.8
Endrin ketone	7.642	7.542	7.742	45.310	50.000	-9.4
gamma-BHC (Lindane)	4.326	4.227	4.427	45.020	50.000	-10.0
gamma-Chlordane	5.937	5.838	6.038	46.090	50.000	-7.8
Heptachlor	4.914	4.814	5.014	45.190	50.000	-9.6
Heptachlor epoxide	5.681	5.582	5.782	43.240	50.000	-13.5
Methoxychlor	7.498	7.398	7.598	44.720	50.000	-10.6
Tetrachloro-m-xylene	3.537	3.439	3.639	45.460	50.000	-9.1

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL01 **Date Analyzed:** 01/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093906.D **Time Analyzed:** 19:06

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.784	5.684	5.884	51.980	50.000	4.0
4,4'-DDE	5.229	5.130	5.330	49.710	50.000	-0.6
4,4'-DDT	6.034	5.934	6.134	43.660	50.000	-12.7
Aldrin	4.223	4.125	4.325	45.790	50.000	-8.4
alpha-BHC	3.276	3.177	3.377	47.430	50.000	-5.1
alpha-Chlordane	5.039	4.940	5.140	48.080	50.000	-3.8
beta-BHC	3.906	3.807	4.007	48.150	50.000	-3.7
Decachlorobiphenyl	7.909	7.810	8.010	45.120	50.000	-9.8
delta-BHC	4.134	4.036	4.236	46.050	50.000	-7.9
Dieldrin	5.360	5.261	5.461	46.390	50.000	-7.2
Endosulfan I	5.095	4.996	5.196	44.980	50.000	-10.0
Endosulfan II	5.931	5.831	6.031	46.350	50.000	-7.3
Endosulfan sulfate	6.333	6.233	6.433	45.570	50.000	-8.9
Endrin	5.635	5.536	5.736	44.130	50.000	-11.7
Endrin aldehyde	6.110	6.010	6.210	43.640	50.000	-12.7
Endrin ketone	6.837	6.739	6.939	45.440	50.000	-9.1
gamma-BHC (Lindane)	3.606	3.507	3.707	46.060	50.000	-7.9
gamma-Chlordane	4.976	4.877	5.077	48.720	50.000	-2.6
Heptachlor	3.944	3.845	4.045	45.820	50.000	-8.4
Heptachlor epoxide	4.726	4.627	4.827	46.510	50.000	-7.0
Methoxychlor	6.609	6.509	6.709	42.130	50.000	-15.7
Tetrachloro-m-xylene	2.774	2.674	2.874	46.540	50.000	-6.9

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Continuing Calib Time: 22:23 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.05	9.05	8.95	9.15	0.00
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.52	4.53	4.43	4.63	0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.91	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Continuing Calib Time: 22:23 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.94	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.03	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL02 **Date Analyzed:** 01/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093919.D **Time Analyzed:** 22:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.709	6.608	6.808	60.970	50.000	21.9
4,4'-DDE	6.191	6.091	6.291	56.740	50.000	13.5
4,4'-DDT	7.022	6.922	7.122	48.470	50.000	-3.1
Aldrin	5.256	5.156	5.356	51.830	50.000	3.7
alpha-BHC	3.993	3.895	4.095	54.130	50.000	8.3
alpha-Chlordane	6.017	5.917	6.117	53.270	50.000	6.5
beta-BHC	4.524	4.425	4.625	54.640	50.000	9.3
Decachlorobiphenyl	9.054	8.953	9.153	53.360	50.000	6.7
delta-BHC	4.772	4.672	4.872	53.190	50.000	6.4
Dieldrin	6.343	6.243	6.443	52.360	50.000	4.7
Endosulfan I	6.068	5.967	6.167	52.270	50.000	4.5
Endosulfan II	6.793	6.692	6.892	52.030	50.000	4.1
Endosulfan sulfate	7.157	7.057	7.257	51.360	50.000	2.7
Endrin	6.572	6.472	6.672	45.130	50.000	-9.7
Endrin aldehyde	6.923	6.823	7.023	51.770	50.000	3.5
Endrin ketone	7.642	7.542	7.742	54.350	50.000	8.7
gamma-BHC (Lindane)	4.326	4.227	4.427	52.880	50.000	5.8
gamma-Chlordane	5.939	5.838	6.038	54.140	50.000	8.3
Heptachlor	4.914	4.814	5.014	51.790	50.000	3.6
Heptachlor epoxide	5.683	5.582	5.782	51.110	50.000	2.2
Methoxychlor	7.499	7.398	7.598	49.050	50.000	-1.9
Tetrachloro-m-xylene	3.537	3.439	3.639	53.460	50.000	6.9

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL02 **Date Analyzed:** 01/30/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093919.D **Time Analyzed:** 22:23

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.784	5.684	5.884	64.470	50.000	28.9
4,4'-DDE	5.229	5.130	5.330	57.870	50.000	15.7
4,4'-DDT	6.034	5.934	6.134	49.080	50.000	-1.8
Aldrin	4.224	4.125	4.325	53.800	50.000	7.6
alpha-BHC	3.276	3.177	3.377	56.170	50.000	12.3
alpha-Chlordane	5.040	4.940	5.140	55.870	50.000	11.7
beta-BHC	3.906	3.807	4.007	56.120	50.000	12.2
Decachlorobiphenyl	7.910	7.810	8.010	51.760	50.000	3.5
delta-BHC	4.135	4.036	4.236	54.350	50.000	8.7
Dieldrin	5.361	5.261	5.461	54.670	50.000	9.3
Endosulfan I	5.096	4.996	5.196	55.230	50.000	10.5
Endosulfan II	5.931	5.831	6.031	55.730	50.000	11.5
Endosulfan sulfate	6.333	6.233	6.433	54.550	50.000	9.1
Endrin	5.636	5.536	5.736	48.300	50.000	-3.4
Endrin aldehyde	6.110	6.010	6.210	52.410	50.000	4.8
Endrin ketone	6.838	6.739	6.939	54.500	50.000	9.0
gamma-BHC (Lindane)	3.606	3.507	3.707	54.470	50.000	8.9
gamma-Chlordane	4.976	4.877	5.077	56.400	50.000	12.8
Heptachlor	3.944	3.845	4.045	52.860	50.000	5.7
Heptachlor epoxide	4.726	4.627	4.827	54.190	50.000	8.4
Methoxychlor	6.609	6.509	6.709	46.490	50.000	-7.0
Tetrachloro-m-xylene	2.773	2.674	2.874	54.850	50.000	9.7

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Continuing Calib Date: 02/01/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 00:57 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	0.00
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Continuing Calib Date: 02/01/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 00:57 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.79	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.04	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL03 **Date Analyzed:** 02/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093971.D **Time Analyzed:** 00:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.711	6.608	6.808	54.730	50.000	9.5
4,4'-DDE	6.192	6.091	6.291	51.870	50.000	3.7
4,4'-DDT	7.025	6.922	7.122	44.830	50.000	-10.3
Aldrin	5.257	5.156	5.356	49.150	50.000	-1.7
alpha-BHC	3.994	3.895	4.095	51.630	50.000	3.3
alpha-Chlordane	6.018	5.917	6.117	49.050	50.000	-1.9
beta-BHC	4.526	4.425	4.625	50.470	50.000	0.9
Decachlorobiphenyl	9.057	8.953	9.153	44.060	50.000	-11.9
delta-BHC	4.772	4.672	4.872	49.410	50.000	-1.2
Dieldrin	6.345	6.243	6.443	47.520	50.000	-5.0
Endosulfan I	6.069	5.967	6.167	48.060	50.000	-3.9
Endosulfan II	6.795	6.692	6.892	46.330	50.000	-7.3
Endosulfan sulfate	7.160	7.057	7.257	44.270	50.000	-11.5
Endrin	6.573	6.472	6.672	44.470	50.000	-11.1
Endrin aldehyde	6.925	6.823	7.023	44.530	50.000	-10.9
Endrin ketone	7.645	7.542	7.742	44.660	50.000	-10.7
gamma-BHC (Lindane)	4.327	4.227	4.427	50.040	50.000	0.1
gamma-Chlordane	5.940	5.838	6.038	49.550	50.000	-0.9
Heptachlor	4.915	4.814	5.014	50.120	50.000	0.2
Heptachlor epoxide	5.683	5.582	5.782	47.790	50.000	-4.4
Methoxychlor	7.500	7.398	7.598	43.640	50.000	-12.7
Tetrachloro-m-xylene	3.538	3.439	3.639	51.110	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL03 **Date Analyzed:** 02/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093971.D **Time Analyzed:** 00:57

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.785	5.684	5.884	56.200	50.000	12.4
4,4'-DDE	5.230	5.130	5.330	54.610	50.000	9.2
4,4'-DDT	6.035	5.934	6.134	46.460	50.000	-7.1
Aldrin	4.224	4.125	4.325	50.030	50.000	0.1
alpha-BHC	3.276	3.177	3.377	53.120	50.000	6.2
alpha-Chlordane	5.041	4.940	5.140	51.720	50.000	3.4
beta-BHC	3.906	3.807	4.007	52.880	50.000	5.8
Decachlorobiphenyl	7.911	7.810	8.010	42.340	50.000	-15.3
delta-BHC	4.135	4.036	4.236	50.050	50.000	0.1
Dieldrin	5.361	5.261	5.461	50.490	50.000	1.0
Endosulfan I	5.097	4.996	5.196	45.740	50.000	-8.5
Endosulfan II	5.932	5.831	6.031	49.620	50.000	-0.8
Endosulfan sulfate	6.334	6.233	6.433	47.400	50.000	-5.2
Endrin	5.637	5.536	5.736	49.760	50.000	-0.5
Endrin aldehyde	6.111	6.010	6.210	45.370	50.000	-9.3
Endrin ketone	6.840	6.739	6.939	45.870	50.000	-8.3
gamma-BHC (Lindane)	3.606	3.507	3.707	51.100	50.000	2.2
gamma-Chlordane	4.977	4.877	5.077	52.470	50.000	4.9
Heptachlor	3.945	3.845	4.045	50.220	50.000	0.4
Heptachlor epoxide	4.727	4.627	4.827	50.070	50.000	0.1
Methoxychlor	6.611	6.509	6.709	45.230	50.000	-9.5
Tetrachloro-m-xylene	2.774	2.674	2.874	52.270	50.000	4.5

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Continuing Calib Date: 02/01/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 02:56 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	3.99	4.00	3.90	4.10	0.01
beta-BHC	4.52	4.53	4.43	4.63	0.01
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.91	4.81	5.01	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.68	5.68	5.58	5.78	0.00
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.34	6.34	6.24	6.44	0.00
4,4'-DDE	6.19	6.19	6.09	6.29	0.00
Endrin	6.57	6.57	6.47	6.67	0.00
Endosulfan II	6.79	6.79	6.69	6.89	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Continuing Calib Date: 02/01/2025 **Initial Calibration Date(s):** 01/21/2025 01/21/2025

Continuing Calib Time: 02:56 **Initial Calibration Time(s):** 10:57 11:51

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.77	2.77	2.67	2.87	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.94	3.95	3.85	4.05	0.01
Aldrin	4.22	4.23	4.13	4.33	0.01
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.93	5.93	5.83	6.03	0.00
4,4'-DDD	5.78	5.78	5.68	5.88	0.00
Endosulfan sulfate	6.33	6.33	6.23	6.43	0.00
4,4'-DDT	6.04	6.03	5.93	6.13	0.00
Methoxychlor	6.61	6.61	6.51	6.71	0.00
Endrin ketone	6.84	6.84	6.74	6.94	0.00
Endrin aldehyde	6.11	6.11	6.01	6.21	0.00
alpha-Chlordane	5.04	5.04	4.94	5.14	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL04 **Date Analyzed:** 02/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093978.D **Time Analyzed:** 02:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.709	6.608	6.808	54.040	50.000	8.1
4,4'-DDE	6.192	6.091	6.291	50.390	50.000	0.8
4,4'-DDT	7.024	6.922	7.122	41.300	50.000	-17.4
Aldrin	5.256	5.156	5.356	47.580	50.000	-4.8
alpha-BHC	3.994	3.895	4.095	50.300	50.000	0.6
alpha-Chlordane	6.018	5.917	6.117	47.510	50.000	-5.0
beta-BHC	4.524	4.425	4.625	49.340	50.000	-1.3
Decachlorobiphenyl	9.056	8.953	9.153	43.190	50.000	-13.6
delta-BHC	4.772	4.672	4.872	47.870	50.000	-4.3
Dieldrin	6.344	6.243	6.443	46.180	50.000	-7.6
Endosulfan I	6.069	5.967	6.167	46.540	50.000	-6.9
Endosulfan II	6.794	6.692	6.892	44.560	50.000	-10.9
Endosulfan sulfate	7.159	7.057	7.257	42.410	50.000	-15.2
Endrin	6.572	6.472	6.672	43.270	50.000	-13.5
Endrin aldehyde	6.924	6.823	7.023	43.010	50.000	-14.0
Endrin ketone	7.644	7.542	7.742	42.580	50.000	-14.8
gamma-BHC (Lindane)	4.326	4.227	4.427	48.630	50.000	-2.7
gamma-Chlordane	5.939	5.838	6.038	48.450	50.000	-3.1
Heptachlor	4.915	4.814	5.014	47.510	50.000	-5.0
Heptachlor epoxide	5.683	5.582	5.782	46.030	50.000	-7.9
Methoxychlor	7.500	7.398	7.598	40.730	50.000	-18.5
Tetrachloro-m-xylene	3.537	3.439	3.639	50.140	50.000	0.3

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CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No.: CCAL04 **Date Analyzed:** 02/01/2025

Lab Sample No.: PSTDCCC050 **Data File :** PL093978.D **Time Analyzed:** 02:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.784	5.684	5.884	56.720	50.000	13.4
4,4'-DDE	5.229	5.130	5.330	52.970	50.000	5.9
4,4'-DDT	6.035	5.934	6.134	43.150	50.000	-13.7
Aldrin	4.224	4.125	4.325	48.890	50.000	-2.2
alpha-BHC	3.276	3.177	3.377	51.570	50.000	3.1
alpha-Chlordane	5.040	4.940	5.140	50.170	50.000	0.3
beta-BHC	3.906	3.807	4.007	51.640	50.000	3.3
Decachlorobiphenyl	7.911	7.810	8.010	41.330	50.000	-17.3
delta-BHC	4.135	4.036	4.236	48.860	50.000	-2.3
Dieldrin	5.361	5.261	5.461	48.850	50.000	-2.3
Endosulfan I	5.096	4.996	5.196	44.640	50.000	-10.7
Endosulfan II	5.932	5.831	6.031	48.980	50.000	-2.0
Endosulfan sulfate	6.333	6.233	6.433	46.240	50.000	-7.5
Endrin	5.636	5.536	5.736	48.540	50.000	-2.9
Endrin aldehyde	6.111	6.010	6.210	44.410	50.000	-11.2
Endrin ketone	6.839	6.739	6.939	45.150	50.000	-9.7
gamma-BHC (Lindane)	3.606	3.507	3.707	49.720	50.000	-0.6
gamma-Chlordane	4.977	4.877	5.077	51.180	50.000	2.4
Heptachlor	3.944	3.845	4.045	47.890	50.000	-4.2
Heptachlor epoxide	4.726	4.627	4.827	48.980	50.000	-2.0
Methoxychlor	6.610	6.509	6.709	41.430	50.000	-17.1
Tetrachloro-m-xylene	2.774	2.674	2.874	51.060	50.000	2.1

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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No. (PEM): PEM - PL093726.D **Date Analyzed:** 01/21/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.052	8.950	9.150	18.070	20.000	-9.7
Tetrachloro-m-xylene	3.538	3.490	3.590	18.530	20.000	-7.4
alpha-BHC	3.994	3.940	4.040	9.490	10.000	-5.1
beta-BHC	4.525	4.470	4.580	9.790	10.000	-2.1
gamma-BHC (Lindane)	4.326	4.280	4.380	9.300	10.000	-7.0
Endrin	6.572	6.500	6.640	41.270	50.000	-17.5
4,4'-DDT	7.022	6.950	7.090	82.410	100.000	-17.6
Methoxychlor	7.498	7.430	7.570	190.380	250.000	-23.8

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

Client Sample No. (PEM): PEM - PL093726.D **Date Analyzed:** 01/21/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:30

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.909	7.810	8.010	17.950	20.000	-10.3
Tetrachloro-m-xylene	2.775	2.720	2.830	17.900	20.000	-10.5
alpha-BHC	3.277	3.230	3.330	8.620	10.000	-13.8
beta-BHC	3.907	3.860	3.960	9.800	10.000	-2.0
gamma-BHC (Lindane)	3.607	3.560	3.660	8.300	10.000	-17.0
Endrin	5.636	5.570	5.710	42.700	50.000	-14.6
4,4'-DDT	6.034	5.960	6.100	96.510	100.000	-3.5
Methoxychlor	6.609	6.540	6.680	209.940	250.000	-16.0

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No. (PEM): PEM - PL093905.D **Date Analyzed:** 01/30/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 18:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.055	8.950	9.160	21.180	20.000	5.9
Tetrachloro-m-xylene	3.539	3.490	3.590	21.130	20.000	5.7
alpha-BHC	3.995	3.940	4.050	10.970	10.000	9.7
beta-BHC	4.526	4.480	4.580	11.370	10.000	13.7
gamma-BHC (Lindane)	4.327	4.280	4.380	10.770	10.000	7.7
Endrin	6.572	6.500	6.640	42.890	50.000	-14.2
4,4'-DDT	7.023	6.950	7.090	89.090	100.000	-10.9
Methoxychlor	7.500	7.430	7.570	212.590	250.000	-15.0

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

Client Sample No. (PEM): PEM - PL093905.D **Date Analyzed:** 01/30/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 18:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.910	7.810	8.010	18.610	20.000	-7.0
Tetrachloro-m-xylene	2.774	2.720	2.820	20.420	20.000	2.1
alpha-BHC	3.276	3.230	3.330	9.640	10.000	-3.6
beta-BHC	3.907	3.860	3.960	10.950	10.000	9.5
gamma-BHC (Lindane)	3.606	3.560	3.660	9.350	10.000	-6.5
Endrin	5.636	5.570	5.710	43.950	50.000	-12.1
4,4'-DDT	6.034	5.960	6.100	96.420	100.000	-3.6
Methoxychlor	6.610	6.540	6.680	211.840	250.000	-15.3

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

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

Client Sample No. (PEM): PEM - PL093958.D **Date Analyzed:** 01/31/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.056	8.960	9.160	20.910	20.000	4.6
Tetrachloro-m-xylene	3.537	3.490	3.590	23.840	20.000	19.2
alpha-BHC	3.993	3.940	4.040	12.420	10.000	24.2
beta-BHC	4.525	4.470	4.580	12.480	10.000	24.8
gamma-BHC (Lindane)	4.326	4.280	4.380	11.910	10.000	19.1
Endrin	6.572	6.500	6.640	47.160	50.000	-5.7
4,4'-DDT	7.024	6.950	7.090	98.200	100.000	-1.8
Methoxychlor	7.501	7.430	7.570	231.470	250.000	-7.4

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

Client Sample No. (PEM): PEM - PL093958.D **Date Analyzed:** 01/31/2025

Lab Sample No.(PEM): PEM **Time Analyzed:** 19:39

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.911	7.810	8.010	18.550	20.000	-7.3
Tetrachloro-m-xylene	2.774	2.720	2.820	22.890	20.000	14.5
alpha-BHC	3.276	3.230	3.330	10.850	10.000	8.5
beta-BHC	3.907	3.860	3.960	12.090	10.000	20.9
gamma-BHC (Lindane)	3.606	3.560	3.660	10.490	10.000	4.9
Endrin	5.637	5.570	5.710	50.900	50.000	1.8
4,4'-DDT	6.034	5.960	6.100	108.940	100.000	8.9
Methoxychlor	6.611	6.540	6.680	235.360	250.000	-5.9

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Analytical Sequence

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Project: NYCDDC SANTWOBR Brooklyn Bridge BI **Instrument ID:** ECD_L

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 #
I.BLK	I.BLK	01/21/2025	10:16	PL093725.D	9.05	3.54
PEM	PEM	01/21/2025	10:30	PL093726.D	9.05	3.54
RESCHK	RESCHK	01/21/2025	10:43	PL093727.D	9.05	3.54
PSTDICC100	PSTDICC100	01/21/2025	10:57	PL093728.D	9.05	3.54
PSTDICC075	PSTDICC075	01/21/2025	11:10	PL093729.D	9.05	3.54
PSTDICC050	PSTDICC050	01/21/2025	11:24	PL093730.D	9.05	3.54
PSTDICC025	PSTDICC025	01/21/2025	11:38	PL093731.D	9.05	3.54
PSTDICC005	PSTDICC005	01/21/2025	11:51	PL093732.D	9.05	3.54
PCHLORICC500	PCHLORICC500	01/21/2025	12:32	PL093735.D	9.05	3.54
PTOXICC500	PTOXICC500	01/21/2025	13:39	PL093740.D	9.05	3.54
I.BLK	I.BLK	01/30/2025	17:59	PL093904.D	9.05	3.54
PEM	PEM	01/30/2025	18:39	PL093905.D	9.06	3.54
PSTDCCC050	PSTDCCC050	01/30/2025	19:06	PL093906.D	9.05	3.54
PB166359BL	PB166359BL	01/30/2025	19:32	PL093907.D	9.05	3.54
PB166359BS	PB166359BS	01/30/2025	19:45	PL093908.D	9.05	3.54
JPP-29.2-012825	Q1215-07	01/30/2025	19:58	PL093909.D	9.05	3.54
I.BLK	I.BLK	01/30/2025	21:44	PL093917.D	9.05	3.54
PSTDCCC050	PSTDCCC050	01/30/2025	22:23	PL093919.D	9.05	3.54
PEM	PEM	01/31/2025	19:39	PL093958.D	9.06	3.54
I.BLK	I.BLK	01/31/2025	22:43	PL093970.D	9.06	3.54
PSTDCCC050	PSTDCCC050	02/01/2025	00:57	PL093971.D	9.06	3.54
JPP-29.1-012825	Q1215-03	02/01/2025	01:10	PL093972.D	9.05	3.54
JPP-29.1-012825MS	Q1215-03MS	02/01/2025	01:24	PL093973.D	9.05	3.54
JPP-29.1-012825MSD	Q1215-03MSD	02/01/2025	01:37	PL093974.D	9.05	3.54
I.BLK	I.BLK	02/01/2025	02:43	PL093977.D	9.06	3.54
PSTDCCC050	PSTDCCC050	02/01/2025	02:56	PL093978.D	9.06	3.54

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Analytical Sequence

Client: RU2 Engineering, LLC **SDG No.:** Q1215

Project: NYCDDC SANTWOBR Brooklyn Bridge BI **Instrument ID:** ECD_L

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 #
I.BLK	I.BLK	01/21/2025	10:16	PL093725.D	7.91	2.78
PEM	PEM	01/21/2025	10:30	PL093726.D	7.91	2.78
RESCHK	RESCHK	01/21/2025	10:43	PL093727.D	7.91	2.77
PSTDICC100	PSTDICC100	01/21/2025	10:57	PL093728.D	7.91	2.78
PSTDICC075	PSTDICC075	01/21/2025	11:10	PL093729.D	7.91	2.77
PSTDICC050	PSTDICC050	01/21/2025	11:24	PL093730.D	7.91	2.77
PSTDICC025	PSTDICC025	01/21/2025	11:38	PL093731.D	7.91	2.77
PSTDICC005	PSTDICC005	01/21/2025	11:51	PL093732.D	7.91	2.77
PCHLORICC500	PCHLORICC500	01/21/2025	12:32	PL093735.D	7.91	2.77
PTOXICC500	PTOXICC500	01/21/2025	13:39	PL093740.D	7.91	2.77
I.BLK	I.BLK	01/30/2025	17:59	PL093904.D	7.91	2.77
PEM	PEM	01/30/2025	18:39	PL093905.D	7.91	2.77
PSTDCCC050	PSTDCCC050	01/30/2025	19:06	PL093906.D	7.91	2.77
PB166359BL	PB166359BL	01/30/2025	19:32	PL093907.D	7.91	2.77
PB166359BS	PB166359BS	01/30/2025	19:45	PL093908.D	7.91	2.77
JPP-29.2-012825	Q1215-07	01/30/2025	19:58	PL093909.D	7.91	2.77
I.BLK	I.BLK	01/30/2025	21:44	PL093917.D	7.91	2.77
PSTDCCC050	PSTDCCC050	01/30/2025	22:23	PL093919.D	7.91	2.77
PEM	PEM	01/31/2025	19:39	PL093958.D	7.91	2.77
I.BLK	I.BLK	01/31/2025	22:43	PL093970.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/01/2025	00:57	PL093971.D	7.91	2.77
JPP-29.1-012825	Q1215-03	02/01/2025	01:10	PL093972.D	7.91	2.77
JPP-29.1-012825MS	Q1215-03MS	02/01/2025	01:24	PL093973.D	7.91	2.77
JPP-29.1-012825MSD	Q1215-03MSD	02/01/2025	01:37	PL093974.D	7.91	2.77
I.BLK	I.BLK	02/01/2025	02:43	PL093977.D	7.91	2.77
PSTDCCC050	PSTDCCC050	02/01/2025	02:56	PL093978.D	7.91	2.77

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-29.1-012825

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: Q1215-03 **Date(s) Analyzed:** 02/01/2025 02/01/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.70	6.65	6.75	1.50	89.4
	2	5.77	5.72	5.82	0.57	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-29.1-012825MS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: Q1215-03MS **Date(s) Analyzed:** 02/01/2025 02/01/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	16.5	0.6
	2	5.93	5.88	5.98	16.6	
4,4'-DDD	1	6.71	6.66	6.76	19.0	20.9
	2	5.78	5.73	5.83	15.4	
4,4'-DDT	1	7.02	6.97	7.07	17.1	12.4
	2	6.03	5.98	6.08	15.1	
Endrin aldehyde	1	6.93	6.88	6.98	15.1	3.4
	2	6.11	6.06	6.16	14.6	
Endosulfan sulfate	1	7.16	7.11	7.21	15.7	0
	2	6.33	6.28	6.38	15.7	
Methoxychlor	1	7.50	7.45	7.55	16.3	13.8
	2	6.61	6.56	6.66	14.2	
Endrin ketone	1	7.64	7.59	7.69	15.7	17.3
	2	6.84	6.79	6.89	13.2	
alpha-BHC	1	3.99	3.94	4.04	17.8	5.8
	2	3.28	3.23	3.33	16.8	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.7	7.2
	2	3.61	3.56	3.66	17.4	
Heptachlor	1	4.91	4.86	4.96	17.8	1.7
	2	3.95	3.90	4.00	17.5	
Aldrin	1	5.26	5.21	5.31	16.9	0.6
	2	4.22	4.17	4.27	17.0	
beta-BHC	1	4.53	4.48	4.58	14.3	17.3
	2	3.91	3.86	3.96	17.0	
delta-BHC	1	4.77	4.72	4.82	17.6	0.6
	2	4.14	4.09	4.19	17.5	
Heptachlor epoxide	1	5.68	5.63	5.73	15.5	9.8
	2	4.73	4.68	4.78	17.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-29.1-012825MS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: Q1215-03MS **Date(s) Analyzed:** 02/01/2025 02/01/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	16.7	42
	2	5.10	5.05	5.15	10.9	
gamma-Chlordane	1	5.94	5.89	5.99	20.1	11
	2	4.98	4.93	5.03	18.0	
alpha-Chlordane	1	6.02	5.97	6.07	18.2	3.9
	2	5.04	4.99	5.09	17.5	
4,4'-DDE	1	6.19	6.14	6.24	11.0	46.2
	2	5.23	5.18	5.28	17.6	
Dieldrin	1	6.35	6.30	6.40	15.8	5.5
	2	5.36	5.31	5.41	16.7	
Endrin	1	6.58	6.53	6.63	15.0	16.5
	2	5.64	5.59	5.69	17.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-29.1-012825MSD

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: Q1215-03MSD **Date(s) Analyzed:** 02/01/2025 02/01/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.79	6.74	6.84	16.1	0.6
	2	5.93	5.88	5.98	16.2	
4,4'-DDD	1	6.71	6.66	6.76	18.7	22.6
	2	5.79	5.74	5.84	14.9	
4,4'-DDT	1	7.02	6.97	7.07	16.3	11.7
	2	6.03	5.98	6.08	14.5	
Endrin aldehyde	1	6.93	6.88	6.98	14.7	0.7
	2	6.11	6.06	6.16	14.6	
Endosulfan sulfate	1	7.16	7.11	7.21	14.9	3.3
	2	6.34	6.29	6.39	15.4	
Endrin ketone	1	7.64	7.59	7.69	15.0	15.1
	2	6.84	6.79	6.89	12.9	
alpha-BHC	1	3.99	3.94	4.04	17.6	6.5
	2	3.28	3.23	3.33	16.5	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	18.5	7.9
	2	3.61	3.56	3.66	17.1	
Heptachlor	1	4.92	4.87	4.97	17.5	2.9
	2	3.95	3.90	4.00	17.0	
Aldrin	1	5.26	5.21	5.31	16.6	0.6
	2	4.22	4.17	4.27	16.7	
beta-BHC	1	4.53	4.48	4.58	14.1	27.5
	2	3.91	3.86	3.96	18.6	
delta-BHC	1	4.77	4.72	4.82	17.5	2.3
	2	4.14	4.09	4.19	17.1	
Heptachlor epoxide	1	5.68	5.63	5.73	15.3	9.3
	2	4.73	4.68	4.78	16.8	
Endosulfan I	1	6.07	6.02	6.12	15.9	52.4
	2	5.10	5.05	5.15	9.30	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-29.1-012825MSD

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: Q1215-03MSD **Date(s) Analyzed:** 02/01/2025 02/01/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
gamma-Chlordane	1	5.94	5.89	5.99	19.6	9.1
	2	4.98	4.93	5.03	17.9	
alpha-Chlordane	1	6.02	5.97	6.07	17.6	2.3
	2	5.04	4.99	5.09	17.2	
4,4'-DDE	1	6.19	6.14	6.24	10.8	41.2
	2	5.23	5.18	5.28	16.4	
Dieldrin	1	6.35	6.30	6.40	15.4	5.7
	2	5.36	5.31	5.41	16.3	
Endrin	1	6.57	6.52	6.62	15.3	13.4
	2	5.64	5.59	5.69	17.5	
Methoxychlor	1	7.50	7.45	7.55	15.8	21
	2	6.61	6.56	6.66	12.8	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

JPP-29.2-012825

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: Q1215-07 **Date(s) Analyzed:** 01/30/2025 01/30/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-Chlordane	1	6.02	5.97	6.07	0.52	80.8
	2	5.04	4.99	5.09	0.22	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB166359BS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: PB166359BS **Date(s) Analyzed:** 01/30/2025 01/30/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.07	6.02	6.12	16.3	7.7
	2	5.10	5.05	5.15	17.6	
alpha-Chlordane	1	6.02	5.97	6.07	16.5	6.5
	2	5.04	4.99	5.09	17.6	
4,4'-DDE	1	6.19	6.14	6.24	17.6	3.4
	2	5.23	5.18	5.28	18.2	
Dieldrin	1	6.34	6.29	6.39	16.5	4.7
	2	5.36	5.31	5.41	17.3	
Endrin	1	6.57	6.52	6.62	14.9	7.7
	2	5.64	5.59	5.69	16.1	
Methoxychlor	1	7.50	7.45	7.55	16.3	3.1
	2	6.61	6.56	6.66	15.8	
Endrin ketone	1	7.64	7.59	7.69	17.1	4
	2	6.84	6.79	6.89	17.8	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.0	1.9
	2	3.61	3.56	3.66	16.3	
Heptachlor	1	4.92	4.87	4.97	16.5	0.6
	2	3.95	3.90	4.00	16.6	
Heptachlor epoxide	1	5.68	5.63	5.73	15.9	7.3
	2	4.73	4.68	4.78	17.1	
gamma-Chlordane	1	5.94	5.89	5.99	16.5	7.6
	2	4.98	4.93	5.03	17.8	
Endosulfan II	1	6.79	6.74	6.84	16.6	5.8
	2	5.93	5.88	5.98	17.6	
4,4'-DDD	1	6.71	6.66	6.76	18.9	3.6
	2	5.78	5.73	5.83	19.6	
4,4'-DDT	1	7.02	6.97	7.07	16.6	1.2
	2	6.03	5.98	6.08	16.4	

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CLIENT SAMPLE NO.

PB166359BS

Contract: RUTW01

Lab Code: CHEM **Case No.:** Q1215 **SAS No.:** Q1215 **SDG NO.:** Q1215

Lab Sample ID: PB166359BS **Date(s) Analyzed:** 01/30/2025 01/30/2025

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin aldehyde	1	6.92	6.87	6.97	16.6	1.8
	2	6.11	6.06	6.16	16.9	
Endosulfan sulfate	1	7.16	7.11	7.21	16.6	5.3
	2	6.33	6.28	6.38	17.5	
alpha-BHC	1	3.99	3.94	4.04	16.2	2.4
	2	3.28	3.23	3.33	16.6	
Aldrin	1	5.26	5.21	5.31	16.1	2.5
	2	4.23	4.18	4.28	16.5	
beta-BHC	1	4.53	4.48	4.58	16.6	1.8
	2	3.91	3.86	3.96	16.9	
delta-BHC	1	4.77	4.72	4.82	16.4	0
	2	4.14	4.09	4.19	16.4	