

LAB CHRONICLE

OrderID:	Q2543	OrderDate:	7/9/2025 12:26:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O42,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2543-01	TP-41	SOIL	Gasoline Range Organics	8015D	07/08/25		07/10/25	07/09/25
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-02	TP-49	SOIL	Gasoline Range Organics	8015D	07/09/25		07/10/25	07/09/25
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-03	TP-23	SOIL	Gasoline Range Organics	8015D	07/09/25		07/10/25	07/09/25
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	
Q2543-04	TP-23-99	SOIL	Gasoline Range Organics	8015D	07/09/25		07/10/25	07/09/25
			PCB	8082A		07/10/25	07/10/25	
			Pesticide-TCL	8081B		07/10/25	07/10/25	



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

Hit Summary Sheet
SW-846

SDG No.:	Q2543	Order ID:	Q2543
Client:	CDM Smith	Project ID:	South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :				Total Concentration:	0.000			



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/08/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-41	SDG No.:	Q2543
Lab Sample ID:	Q2543-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	82
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089438.D	1	07/10/25 08:35	07/10/25 15:09	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.10	ug/kg
319-85-7	beta-BHC	0.22	U	0.22	2.10	ug/kg
319-86-8	delta-BHC	0.48	U	0.48	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	2.10	ug/kg
76-44-8	Heptachlor	0.15	U	0.15	2.10	ug/kg
309-00-2	Aldrin	0.15	U	0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	2.10	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.10	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.10	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.10	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.10	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.10	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.10	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.10	ug/kg
72-43-5	Methoxychlor	0.45	U	0.45	2.10	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.10	ug/kg
7421-93-4	Endrin aldehyde	0.45	U	0.45	2.10	ug/kg
5103-71-9	alpha-Chlordane	0.15	U	0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.10	ug/kg
8001-35-2	Toxaphene	6.60	U	6.60	40.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	9.94		20 - 144	50%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.2		19 - 148	91%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/08/25	
Project:	South River WM Replacement		Date Received:	07/09/25	
Client Sample ID:	TP-41		SDG No.:	Q2543	
Lab Sample ID:	Q2543-01		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	82	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
PD089438.D	1	07/10/25 08:35	07/10/25 15:09	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	73.9
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089439.D	1	07/10/25 08:35	07/10/25 15:23	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.18	U	0.18	2.30	ug/kg
319-85-7	beta-BHC	0.24	U	0.24	2.30	ug/kg
319-86-8	delta-BHC	0.53	U	0.53	2.30	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	2.30	ug/kg
76-44-8	Heptachlor	0.16	U	0.16	2.30	ug/kg
309-00-2	Aldrin	0.16	U	0.16	2.30	ug/kg
1024-57-3	Heptachlor epoxide	0.26	U	0.26	2.30	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	2.30	ug/kg
60-57-1	Dieldrin	0.19	U	0.19	2.30	ug/kg
72-55-9	4,4-DDE	0.19	U	0.19	2.30	ug/kg
72-20-8	Endrin	0.19	U	0.19	2.30	ug/kg
33213-65-9	Endosulfan II	0.39	U	0.39	2.30	ug/kg
72-54-8	4,4-DDD	0.20	U	0.20	2.30	ug/kg
1031-07-8	Endosulfan Sulfate	0.18	U	0.18	2.30	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	2.30	ug/kg
72-43-5	Methoxychlor	0.50	U	0.50	2.30	ug/kg
53494-70-5	Endrin ketone	0.26	U	0.26	2.30	ug/kg
7421-93-4	Endrin aldehyde	0.50	U	0.50	2.30	ug/kg
5103-71-9	alpha-Chlordane	0.16	U	0.16	2.30	ug/kg
5103-74-2	gamma-Chlordane	0.20	U	0.20	2.30	ug/kg
8001-35-2	Toxaphene	7.30	U	7.30	44.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.5		20 - 144	68%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.4		19 - 148	92%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-49	SDG No.:	Q2543
Lab Sample ID:	Q2543-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	73.9
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089439.D	1	07/10/25 08:35	07/10/25 15:23	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23	SDG No.:	Q2543
Lab Sample ID:	Q2543-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089440.D	1	07/10/25 08:35	07/10/25 15:37	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	38.8	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.8		20 - 144	69%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		19 - 148	103%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/09/25	
Project:	South River WM Replacement		Date Received:	07/09/25	
Client Sample ID:	TP-23		SDG No.:	Q2543	
Lab Sample ID:	Q2543-03		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	85	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
PD089440.D	1	07/10/25 08:35	07/10/25 15:37	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23-99	SDG No.:	Q2543
Lab Sample ID:	Q2543-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089443.D	1	07/10/25 08:35	07/10/25 16:17	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.46	U	0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	2.00	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	2.00	ug/kg
309-00-2	Aldrin	0.14	U	0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	2.00	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	2.00	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	2.00	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.00	ug/kg
72-20-8	Endrin	0.16	U	0.16	2.00	ug/kg
33213-65-9	Endosulfan II	0.34	U	0.34	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	2.00	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	2.00	ug/kg
72-43-5	Methoxychlor	0.43	U	0.43	2.00	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	0.18	U	0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.6	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.9		20 - 144	65%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.8		19 - 148	99%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/09/25	
Project:	South River WM Replacement		Date Received:	07/09/25	
Client Sample ID:	TP-23-99		SDG No.:	Q2543	
Lab Sample ID:	Q2543-04		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	85.4	Decanted:
Sample Wt/Vol:	30.05	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
PD089443.D	1	07/10/25 08:35	07/10/25 16:17	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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QC SUMMARY

Surrogate Summary

SDG No.: **Q2543**

Client: **CDM Smith**

Analytical Method: **8081B**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PD088990.D	PIBLK-PD088990.D	Decachlorobiphen	1	20	18.2	91		57	171
		Tetrachloro-m-xyl	1	20	16.1	80		61	148
		Decachlorobiphen	2	20	18.6	93		57	171
		Tetrachloro-m-xyl	2	20	17.7	88		61	148
I.BLK-PD089431.D	PIBLK-PD089431.D	Decachlorobiphen	1	20	20.9	104		57	171
		Tetrachloro-m-xyl	1	20	19.2	96		61	148
		Decachlorobiphen	2	20	23.9	119		57	171
		Tetrachloro-m-xyl	2	20	22.0	110		61	148
PB168784BL	PB168784BL	Decachlorobiphen	1	20	20.1	100		20	144
		Tetrachloro-m-xyl	1	20	17.7	88		19	148
		Decachlorobiphen	2	20	21.4	107		20	144
		Tetrachloro-m-xyl	2	20	21.0	105		19	148
PB168784BS	PB168784BS	Decachlorobiphen	1	20	17.6	88		20	144
		Tetrachloro-m-xyl	1	20	14.8	74		19	148
		Decachlorobiphen	2	20	19.1	96		20	144
		Tetrachloro-m-xyl	2	20	17.9	89		19	148
Q2543-01	TP-41	Decachlorobiphen	1	20	9.94	50		20	144
		Tetrachloro-m-xyl	1	20	15.8	79		19	148
		Decachlorobiphen	2	20	6.97	35		20	144
		Tetrachloro-m-xyl	2	20	18.2	91		19	148
Q2543-02	TP-49	Decachlorobiphen	1	20	13.5	68		20	144
		Tetrachloro-m-xyl	1	20	16.7	83		19	148
		Decachlorobiphen	2	20	10.1	51		20	144
		Tetrachloro-m-xyl	2	20	18.4	92		19	148
Q2543-03	TP-23	Decachlorobiphen	1	20	13.8	69		20	144
		Tetrachloro-m-xyl	1	20	18.6	93		19	148
		Decachlorobiphen	2	20	11.2	56		20	144
		Tetrachloro-m-xyl	2	20	20.7	103		19	148
Q2543-03MS	TP-23MS	Decachlorobiphen	1	20	13.4	67		20	144
		Tetrachloro-m-xyl	1	20	16.8	84		19	148
		Decachlorobiphen	2	20	12.3	61		20	144
		Tetrachloro-m-xyl	2	20	19.6	98		19	148
Q2543-03MSD	TP-23MSD	Decachlorobiphen	1	20	13.4	67		20	144
		Tetrachloro-m-xyl	1	20	17.0	85		19	148
		Decachlorobiphen	2	20	11.7	59		20	144
		Tetrachloro-m-xyl	2	20	19.3	97		19	148
Q2543-04	TP-23-99	Decachlorobiphen	1	20	12.9	65		20	144
		Tetrachloro-m-xyl	1	20	18.1	91		19	148
		Decachlorobiphen	2	20	12.2	61		20	144
		Tetrachloro-m-xyl	2	20	19.8	99		19	148
I.BLK-PD089447.D	PIBLK-PD089447.D	Decachlorobiphen	1	20	16.3	81		57	171

Surrogate Summary

SDG No.: Q2543

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
I.BLK-PD089447.D	PIBLK-PD089447.D	Tetrachloro-m-xyl	1	20	18.4	92		61	148
		Decachlorobiphen	2	20	13.4	67		57	171
		Tetrachloro-m-xyl	2	20	21.6	108		61	148

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2543</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089441.D</u>

	Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits		RPD
			Result								High		
Lab Sample ID:	Q2543-03MS (Column 1)	Client Sample ID:		TP-23MS									
	alpha-BHC	19.57	0	17.2	ug/kg	88				60	144		
	beta-BHC	19.57	0	16.0	ug/kg	82				54	143		
	delta-BHC	19.57	0	16.9	ug/kg	86				29	151		
	gamma-BHC (Lindane)	19.57	0	16.9	ug/kg	86				61	140		
	Heptachlor	19.57	0	15.7	ug/kg	80				63	135		
	Aldrin	19.57	0	16.3	ug/kg	83				49	139		
	Heptachlor epoxide	19.57	0	15.1	ug/kg	77				41	156		
	Endosulfan I	19.57	0	14.9	ug/kg	76				56	142		
	Dieldrin	19.57	0	14.7	ug/kg	75				47	161		
	4,4'-DDE	19.57	0	14.7	ug/kg	75				55	136		
	Endrin	19.57	0	13.5	ug/kg	69				57	139		
	Endosulfan II	19.57	0	14.1	ug/kg	72				40	163		
	4,4'-DDD	19.57	0	14.3	ug/kg	73				47	163		
	Endosulfan sulfate	19.57	0	13.6	ug/kg	69				62	139		
	4,4'-DDT	19.57	0	13.3	ug/kg	68				51	146		
	Methoxychlor	19.57	0	12.5	ug/kg	64				54	136		
	Endrin ketone	19.57	0	14.0	ug/kg	72				60	129		
	Endrin aldehyde	19.57	0	14.4	ug/kg	74				59	132		
	alpha-Chlordane	19.57	0	14.8	ug/kg	76				39	166		
	gamma-Chlordane	19.57	0	14.8	ug/kg	76				44	175		
Lab Sample ID:	Q2543-03MS (Column 2)	Client Sample ID:		TP-23MS									
	alpha-BHC	19.57	0	18.5	ug/kg	95				60	144		
	beta-BHC	19.57	0	17.9	ug/kg	91				54	143		
	delta-BHC	19.57	0	18.1	ug/kg	92				29	151		
	gamma-BHC (Lindane)	19.57	0	18.4	ug/kg	94				61	140		
	Heptachlor	19.57	0	17.6	ug/kg	90				63	135		
	Aldrin	19.57	0	18.1	ug/kg	92				49	139		
	Heptachlor epoxide	19.57	0	17.7	ug/kg	90				41	156		
	Endosulfan I	19.57	0	17.1	ug/kg	87				56	142		
	Dieldrin	19.57	0	16.7	ug/kg	85				47	161		
	4,4'-DDE	19.57	0	16.7	ug/kg	85				55	136		
	Endrin	19.57	0	15.7	ug/kg	80				57	139		
	Endosulfan II	19.57	0	15.1	ug/kg	77				40	163		
	4,4'-DDD	19.57	0	15.0	ug/kg	77				47	163		
	Endosulfan sulfate	19.57	0	14.4	ug/kg	74				62	139		

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2543</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089441.D</u>

Parameter	Spike	Sample		Units	Rec	Rec	RPD		Limits	RPD
		Result	Result				Qual	RPD		
4,4'-DDT	19.57	0	14.1	ug/kg	72				51	146
Methoxychlor	19.57	0	13.0	ug/kg	66				54	136
Endrin ketone	19.57	0	13.0	ug/kg	66				60	129
Endrin aldehyde	19.57	0	14.6	ug/kg	75				59	132
alpha-Chlordane	19.57	0	16.9	ug/kg	86				39	166
gamma-Chlordane	19.57	0	17.0	ug/kg	87				44	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2543</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089442.D</u>

	Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits		RPD
			Result	Result							High		
Lab Sample ID:	Q2543-03MSD	Client Sample ID:		TP-23MSD									
	(Column 1)												
	alpha-BHC	19.56	0	17.4	ug/kg	89		1		60	144		20
	beta-BHC	19.56	0	16.7	ug/kg	85		4		54	143		20
	delta-BHC	19.56	0	17.8	ug/kg	91		6		29	151		20
	gamma-BHC (Lindane)	19.56	0	17.4	ug/kg	89		3		61	140		20
	Heptachlor	19.56	0	16.0	ug/kg	82		2		63	135		20
	Aldrin	19.56	0	16.4	ug/kg	84		1		49	139		20
	Heptachlor epoxide	19.56	0	16.2	ug/kg	83		8		41	156		20
	Endosulfan I	19.56	0	15.4	ug/kg	79		4		56	142		20
	Dieldrin	19.56	0	15.2	ug/kg	78		4		47	161		20
	4,4'-DDE	19.56	0	15.1	ug/kg	77		3		55	136		20
	Endrin	19.56	0	14.7	ug/kg	75		8		57	139		20
	Endosulfan II	19.56	0	13.8	ug/kg	71		1		40	163		20
	4,4'-DDD	19.56	0	15.0	ug/kg	77		5		47	163		20
	Endosulfan sulfate	19.56	0	14.2	ug/kg	73		6		62	139		20
	4,4'-DDT	19.56	0	13.5	ug/kg	69		1		51	146		20
	Methoxychlor	19.56	0	12.8	ug/kg	65		2		54	136		20
	Endrin ketone	19.56	0	13.8	ug/kg	71		1		60	129		20
	Endrin aldehyde	19.56	0	14.2	ug/kg	73		1		59	132		20
	alpha-Chlordane	19.56	0	15.5	ug/kg	79		4		39	166		20
	gamma-Chlordane	19.56	0	15.6	ug/kg	80		5		44	175		20
Lab Sample ID:	Q2543-03MSD	Client Sample ID:		TP-23MSD									
	(Column 2)												
	alpha-BHC	19.56	0	18.5	ug/kg	95		0		60	144		20
	beta-BHC	19.56	0	17.9	ug/kg	92		1		54	143		20
	delta-BHC	19.56	0	18.4	ug/kg	94		2		29	151		20
	gamma-BHC (Lindane)	19.56	0	18.4	ug/kg	94		0		61	140		20
	Heptachlor	19.56	0	17.6	ug/kg	90		0		63	135		20
	Aldrin	19.56	0	18.4	ug/kg	94		2		49	139		20
	Heptachlor epoxide	19.56	0	18.4	ug/kg	94		4		41	156		20
	Endosulfan I	19.56	0	17.6	ug/kg	90		3		56	142		20
	Dieldrin	19.56	0	16.9	ug/kg	86		1		47	161		20
	4,4'-DDE	19.56	0	17.0	ug/kg	87		2		55	136		20
	Endrin	19.56	0	16.3	ug/kg	83		4		57	139		20
	Endosulfan II	19.56	0	15.6	ug/kg	80		4		40	163		20
	4,4'-DDD	19.56	0	15.7	ug/kg	80		4		47	163		20
	Endosulfan sulfate	19.56	0	15.1	ug/kg	77		4		62	139		20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2543</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089442.D</u>

Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits	
		Result	Result							High	RPD
4,4'-DDT	19.56	0	14.5	ug/kg	74		3		51	146	20
Methoxychlor	19.56	0	13.2	ug/kg	67		2		54	136	20
Endrin ketone	19.56	0	14.1	ug/kg	72		9		60	129	20
Endrin aldehyde	19.56	0	15.1	ug/kg	77		3		59	132	20
alpha-Chlordane	19.56	0	17.5	ug/kg	89		3		39	166	20
gamma-Chlordane	19.56	0	17.7	ug/kg	90		3		44	175	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q2543	Analytical Method:	8081B
Client:	CDM Smith	Datafile :	PD089434.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB168784BS (Column 1)	alpha-BHC	16.66	15.5	ug/kg	93				84	123		
	beta-BHC	16.66	15.0	ug/kg	90				82	123		
	delta-BHC	16.66	16.7	ug/kg	100				83	126		
	gamma-BHC (Lindane)	16.66	15.5	ug/kg	93				83	125		
	Heptachlor	16.66	15.7	ug/kg	94				83	122		
	Aldrin	16.66	15.7	ug/kg	94				82	124		
	Heptachlor epoxide	16.66	15.5	ug/kg	93				83	120		
	Endosulfan I	16.66	15.7	ug/kg	94				81	124		
	Dieldrin	16.66	15.9	ug/kg	95				85	121		
	4,4'-DDE	16.66	15.6	ug/kg	94				81	123		
	Endrin	16.66	14.9	ug/kg	89				76	130		
	Endosulfan II	16.66	16.0	ug/kg	96				80	125		
	4,4'-DDD	16.66	16.1	ug/kg	97				80	131		
	Endosulfan sulfate	16.66	15.7	ug/kg	94				81	122		
	4,4'-DDT	16.66	15.4	ug/kg	92				70	129		
	Methoxychlor	16.66	14.8	ug/kg	89				60	119		
	Endrin ketone	16.66	16.1	ug/kg	97				77	132		
	Endrin aldehyde	16.66	15.7	ug/kg	94				79	124		
	alpha-Chlordane	16.66	15.7	ug/kg	94				84	120		
	gamma-Chlordane	16.66	15.8	ug/kg	95				83	122		
	alpha-BHC	16.66	16.7	ug/kg	100				84	123		
PB168784BS (Column 2)	beta-BHC	16.66	16.5	ug/kg	99				82	123		
	delta-BHC	16.66	16.8	ug/kg	101				83	126		
	gamma-BHC (Lindane)	16.66	16.8	ug/kg	101				83	125		
	Heptachlor	16.66	16.4	ug/kg	98				83	122		
	Aldrin	16.66	16.8	ug/kg	101				82	124		
	Heptachlor epoxide	16.66	17.0	ug/kg	102				83	120		
	Endosulfan I	16.66	17.0	ug/kg	102				81	124		
	Dieldrin	16.66	16.8	ug/kg	101				85	121		
	4,4'-DDE	16.66	16.8	ug/kg	101				81	123		
	Endrin	16.66	15.8	ug/kg	95				76	130		
	Endosulfan II	16.66	16.7	ug/kg	100				80	125		
	4,4'-DDD	16.66	17.0	ug/kg	102				80	131		
	Endosulfan sulfate	16.66	16.7	ug/kg	100				81	122		
	4,4'-DDT	16.66	16.2	ug/kg	97				70	129		
	Methoxychlor	16.66	15.6	ug/kg	94				60	119		
	Endrin ketone	16.66	17.2	ug/kg	103				77	132		
	Endrin aldehyde	16.66	16.5	ug/kg	99				79	124		
	alpha-Chlordane	16.66	16.7	ug/kg	100				84	120		
	gamma-Chlordane	16.66	16.7	ug/kg	100				83	122		

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB168784BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Lab Sample ID: PB168784BL

Lab File ID: PD089433.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/10/2025

Date Analyzed (1): 07/10/2025

Date Analyzed (2): 07/10/2025

Time Analyzed (1): 13:31

Time Analyzed (2): 13:31

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

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
PB168784BS	PB168784BS	PD089434.D	07/10/2025	07/10/2025
TP-41	Q2543-01	PD089438.D	07/10/2025	07/10/2025
TP-49	Q2543-02	PD089439.D	07/10/2025	07/10/2025
TP-23	Q2543-03	PD089440.D	07/10/2025	07/10/2025
TP-23MS	Q2543-03MS	PD089441.D	07/10/2025	07/10/2025
TP-23MSD	Q2543-03MSD	PD089442.D	07/10/2025	07/10/2025
TP-23-99	Q2543-04	PD089443.D	07/10/2025	07/10/2025

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168784BL	SDG No.:	Q2543
Lab Sample ID:	PB168784BL	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089433.D	1	07/10/25 08:35	07/10/25 13:31	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.13	U	0.13	1.70	ug/kg
319-85-7	beta-BHC	0.18	U	0.18	1.70	ug/kg
319-86-8	delta-BHC	0.39	U	0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.14	U	0.14	1.70	ug/kg
76-44-8	Heptachlor	0.12	U	0.12	1.70	ug/kg
309-00-2	Aldrin	0.12	U	0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.19	U	0.19	1.70	ug/kg
959-98-8	Endosulfan I	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.14	U	0.14	1.70	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.70	ug/kg
72-20-8	Endrin	0.14	U	0.14	1.70	ug/kg
33213-65-9	Endosulfan II	0.29	U	0.29	1.70	ug/kg
72-54-8	4,4-DDD	0.15	U	0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.14	U	0.14	1.70	ug/kg
72-43-5	Methoxychlor	0.37	U	0.37	1.70	ug/kg
53494-70-5	Endrin ketone	0.19	U	0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.37	U	0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.12	U	0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.15	U	0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.4		20 - 144	107%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		19 - 148	105%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168784BL		SDG No.:	Q2543	
Lab Sample ID:	PB168784BL		Matrix:	SOIL	
Analytical Method:	8081B		% 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
PD089433.D	1	07/10/25 08:35	07/10/25 13:31	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	CDM Smith	Date Collected:	06/17/25
Project:	South River WM Replacement	Date Received:	06/17/25
Client Sample ID:	PIBLK-PD088990.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD088990.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		57 - 171	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		61 - 148	88%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	06/17/25	
Project:	South River WM Replacement		Date Received:	06/17/25	
Client Sample ID:	PIBLK-PD088990.D		SDG No.:	Q2543	
Lab Sample ID:	I.BLK-PD088990.D		Matrix:	WATER	
Analytical Method:	8081B		% 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
PD088990.D	1		06/17/25	PD061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PD089431.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD089431.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089431.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.9		57 - 171	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		61 - 148	110%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/10/25	
Project:	South River WM Replacement		Date Received:	07/10/25	
Client Sample ID:	PIBLK-PD089431.D		SDG No.:	Q2543	
Lab Sample ID:	I.BLK-PD089431.D		Matrix:	WATER	
Analytical Method:	8081B		% 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
PD089431.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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

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J = Estimated Value

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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:	CDM Smith	Date Collected:	07/10/25
Project:	South River WM Replacement	Date Received:	07/10/25
Client Sample ID:	PIBLK-PD089447.D	SDG No.:	Q2543
Lab Sample ID:	I.BLK-PD089447.D	Matrix:	WATER
Analytical Method:	8081B	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	3510C	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089447.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0039	U	0.0039	0.050	ug/L
319-85-7	beta-BHC	0.0049	U	0.0049	0.050	ug/L
319-86-8	delta-BHC	0.011	U	0.011	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0037	U	0.0037	0.050	ug/L
76-44-8	Heptachlor	0.0027	U	0.0027	0.050	ug/L
309-00-2	Aldrin	0.0036	U	0.0036	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0096	U	0.0096	0.050	ug/L
959-98-8	Endosulfan I	0.0031	U	0.0031	0.050	ug/L
60-57-1	Dieldrin	0.0036	U	0.0036	0.050	ug/L
72-55-9	4,4-DDE	0.0037	U	0.0037	0.050	ug/L
72-20-8	Endrin	0.0032	U	0.0032	0.050	ug/L
33213-65-9	Endosulfan II	0.0079	U	0.0079	0.050	ug/L
72-54-8	4,4-DDD	0.0071	U	0.0071	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0037	U	0.0037	0.050	ug/L
50-29-3	4,4-DDT	0.0035	U	0.0035	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0093	U	0.0093	0.050	ug/L
7421-93-4	Endrin aldehyde	0.011	U	0.011	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0035	U	0.0035	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0039	U	0.0039	0.050	ug/L
8001-35-2	Toxaphene	0.17	U	0.17	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.3		57 - 171	81%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		61 - 148	108%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/10/25	
Project:	South River WM Replacement		Date Received:	07/10/25	
Client Sample ID:	PIBLK-PD089447.D		SDG No.:	Q2543	
Lab Sample ID:	I.BLK-PD089447.D		Matrix:	WATER	
Analytical Method:	8081B		% 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
PD089447.D	1		07/10/25	PD071025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168784BS	SDG No.:	Q2543
Lab Sample ID:	PB168784BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089434.D	1	07/10/25 08:35	07/10/25 14:02	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.7		0.13	1.70	ug/kg
319-85-7	beta-BHC	16.5		0.18	1.70	ug/kg
319-86-8	delta-BHC	16.8		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.8		0.14	1.70	ug/kg
76-44-8	Heptachlor	16.4		0.12	1.70	ug/kg
309-00-2	Aldrin	16.8		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	17.0		0.19	1.70	ug/kg
959-98-8	Endosulfan I	17.0		0.14	1.70	ug/kg
60-57-1	Dieldrin	16.8		0.14	1.70	ug/kg
72-55-9	4,4-DDE	16.8		0.14	1.70	ug/kg
72-20-8	Endrin	15.8		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	16.7		0.29	1.70	ug/kg
72-54-8	4,4-DDD	17.0		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	16.7		0.13	1.70	ug/kg
50-29-3	4,4-DDT	16.2		0.14	1.70	ug/kg
72-43-5	Methoxychlor	15.6		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	17.2		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	16.5		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	16.7		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	16.7		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		20 - 144	96%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.9		19 - 148	89%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168784BS	SDG No.:	Q2543
Lab Sample ID:	PB168784BS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	100
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	Injection Volume :	
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089434.D	1	07/10/25 08:35	07/10/25 14:02	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089441.D	1	07/10/25 08:35	07/10/25 15:50	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.5		0.15	2.00	ug/kg
319-85-7	beta-BHC	17.9		0.21	2.00	ug/kg
319-86-8	delta-BHC	18.1		0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	18.4		0.16	2.00	ug/kg
76-44-8	Heptachlor	17.6		0.14	2.00	ug/kg
309-00-2	Aldrin	18.1		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	17.7		0.22	2.00	ug/kg
959-98-8	Endosulfan I	17.1		0.16	2.00	ug/kg
60-57-1	Dieldrin	16.7		0.16	2.00	ug/kg
72-55-9	4,4-DDE	16.7		0.16	2.00	ug/kg
72-20-8	Endrin	15.7		0.16	2.00	ug/kg
33213-65-9	Endosulfan II	15.1		0.34	2.00	ug/kg
72-54-8	4,4-DDD	15.0		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	14.4		0.15	2.00	ug/kg
50-29-3	4,4-DDT	14.1		0.16	2.00	ug/kg
72-43-5	Methoxychlor	13.0		0.43	2.00	ug/kg
53494-70-5	Endrin ketone	14.0		0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	14.6		0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	16.9		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.0		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.40	U	6.40	38.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.4		20 - 144	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.6		19 - 148	98%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MS	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089441.D	1	07/10/25 08:35	07/10/25 15:50	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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Comments:

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Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Decanted:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089442.D	1	07/10/25 08:35	07/10/25 16:04	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.5		0.15	2.00	ug/kg
319-85-7	beta-BHC	17.9		0.21	2.00	ug/kg
319-86-8	delta-BHC	18.4		0.46	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	18.4		0.16	2.00	ug/kg
76-44-8	Heptachlor	17.6		0.14	2.00	ug/kg
309-00-2	Aldrin	18.4		0.14	2.00	ug/kg
1024-57-3	Heptachlor epoxide	18.4		0.22	2.00	ug/kg
959-98-8	Endosulfan I	17.6		0.16	2.00	ug/kg
60-57-1	Dieldrin	16.9		0.16	2.00	ug/kg
72-55-9	4,4-DDE	17.0		0.16	2.00	ug/kg
72-20-8	Endrin	16.3		0.16	2.00	ug/kg
33213-65-9	Endosulfan II	15.6		0.34	2.00	ug/kg
72-54-8	4,4-DDD	15.7		0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	15.1		0.15	2.00	ug/kg
50-29-3	4,4-DDT	14.5		0.16	2.00	ug/kg
72-43-5	Methoxychlor	13.2		0.43	2.00	ug/kg
53494-70-5	Endrin ketone	14.1		0.22	2.00	ug/kg
7421-93-4	Endrin aldehyde	15.1		0.43	2.00	ug/kg
5103-71-9	alpha-Chlordane	17.5		0.14	2.00	ug/kg
5103-74-2	gamma-Chlordane	17.7		0.18	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.4		20 - 144	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		19 - 148	97%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/09/25
Project:	South River WM Replacement	Date Received:	07/09/25
Client Sample ID:	TP-23MSD	SDG No.:	Q2543
Lab Sample ID:	Q2543-03MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	85
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Pesticide-TCL
GPC Factor :	1.0	PH :	
Prep Method :	SW3541B	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089442.D	1	07/10/25 08:35	07/10/25 16:04	PB168784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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CALIBRATION SUMMARY



A
B
C
D
E
F
G
H

Contract: **CAMP02**

SDG NO.: Q2543

Calibration Date(s): **06/17/2025** **06/17/2025**

Calibration Times: **15:52** **16:47**

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

LAB FILE ID:	RT 100 =	<u>PD088993.D</u>	RT 075 =	<u>PD088994.D</u>
RT 050 = PD088995.D	RT 025 =	PD088996.D	RT 005 =	PD088997.D

[illegible]

A
B
C
D
E
F
G
H

Contract: **CAMP02**

SDG NO.: Q2543

Calibration Date(s): **06/17/2025** **06/17/2025**

Calibration Times: 15:52 16:47

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

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2543

Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

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

LAB FILE ID:				CF 100 =	<u>PD088993.D</u>	CF 075 =	<u>PD088994.D</u>
CF 050 =		<u>PD088995.D</u>	CF 025 =		<u>PD088996.D</u>	CF 005 =	<u>PD088997.D</u>
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	3557450000	3439230000	3414120000	3228670000	3520780000	3432050000	4
4,4'-DDE	4564130000	4401240000	4312380000	4092310000	4435110000	4361030000	4
4,4'-DDT	3928430000	3802000000	3763430000	3580670000	3866490000	3788210000	3
Aldrin	5504150000	5312640000	5254800000	4989300000	5504000000	5312980000	4
alpha-BHC	6295370000	6031790000	5874750000	5417910000	5525530000	5829070000	6
alpha-Chlordane	4885060000	4758900000	4734630000	4584390000	5229700000	4838540000	5
beta-BHC	2136750000	2100860000	2137680000	2144670000	2515730000	2207140000	8
Decachlorobiphenyl	3598890000	3628150000	3773200000	3897960000	4739940000	3927630000	12
delta-BHC	5546280000	5292010000	5182350000	4751190000	4892690000	5132900000	6
Dieldrin	4933650000	4797080000	4750270000	4527510000	4978810000	4797470000	4
Endosulfan I	4511200000	4405770000	4412600000	4289200000	4918470000	4507450000	5
Endosulfan II	3829260000	3982180000	4002080000	3816490000	4553000000	4036600000	7
Endosulfan sulfate	3786900000	3718160000	3741600000	3667440000	4271990000	3837220000	6
Endrin	4238140000	4109540000	4096430000	3878120000	4305700000	4125590000	4
Endrin aldehyde	2964260000	2935670000	2964230000	2966830000	3488720000	3063940000	8
Endrin ketone	4050100000	3970810000	4004900000	3895960000	4443590000	4073070000	5
gamma-BHC (Lindane)	5900830000	5686510000	5566590000	5221690000	5532800000	5581680000	4
gamma-Chlordane	4869330000	4801300000	4716110000	4508810000	5045020000	4788110000	4
Heptachlor	5621840000	5429540000	5358570000	5116310000	5733550000	5451960000	4
Heptachlor epoxide	4794850000	4673610000	4749650000	4554690000	5346870000	4823940000	6
Methoxychlor	1926110000	1918890000	1971480000	1982080000	2304580000	2020630000	8
Tetrachloro-m-xylene	2812300000	2762040000	2767280000	2751820000	3172230000	2853130000	6

CALIBRATION FACTOR OF INITIAL CALIBRATION

Lab Name: Alliance
Lab Code: ACE
Instrument ID: ECD_D

Contract: CAMP02
SDG NO.: Q2543

Calibration Date(s): 06/17/2025 06/17/2025
Calibration Times: 15:52 16:47

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

LAB FILE ID:		CF 100 = <u>PD088993.D</u>	CF 075 = <u>PD088994.D</u>				
CF 050 = <u>PD088995.D</u>		CF 025 = <u>PD088996.D</u>	CF 005 = <u>PD088997.D</u>				
COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	17754100000	17899700000	18191100000	18805800000	22996200000	19129400000	11
4,4'-DDE	21343500000	21440200000	21823600000	22564100000	27409000000	22916100000	11
4,4'-DDT	19391000000	19327800000	19594100000	20005200000	23078500000	20279300000	8
Aldrin	22719200000	22747700000	23159400000	23852800000	28607200000	24217300000	10
alpha-BHC	25649000000	25438700000	25849200000	26153100000	30895500000	26797100000	9
alpha-Chlordane	21191300000	21145300000	21570900000	22517200000	28059300000	22896800000	13
beta-BHC	9903630000	9918550000	10198200000	10624100000	13086800000	10746200000	12
Decachlorobiphenyl	17946500000	17939700000	18428600000	19427500000	25107500000	19770000000	15
delta-BHC	23614400000	23533700000	23918700000	24298300000	29003000000	24873600000	9
Dieldrin	21438700000	21622000000	22120600000	22941800000	27919200000	23208500000	12
Endosulfan I	19170300000	19201000000	19315500000	20752900000	25772600000	20842500000	14
Endosulfan II	18473200000	18573800000	19087100000	20002300000	24846800000	20196600000	13
Endosulfan sulfate	17925600000	18043500000	18492500000	19409200000	24234500000	19621100000	13
Endrin	20535400000	19906600000	20644700000	21276500000	26206500000	21713900000	12
Endrin aldehyde	13773600000	13920200000	14379400000	15195500000	19287900000	15311300000	15
Endrin ketone	19587400000	19824900000	20446500000	21535300000	26614600000	21601700000	13
gamma-BHC (Lindane)	23622800000	23442000000	23749900000	24221500000	28748400000	24756900000	9
gamma-Chlordane	22229100000	22022500000	22519500000	23493700000	29348800000	23922700000	13
Heptachlor	23291600000	23365200000	23922200000	24716000000	29896800000	25038400000	11
Heptachlor epoxide	20080600000	20251900000	20827300000	21695300000	26635200000	21898100000	12
Methoxychlor	9712450000	9897880000	10259100000	10830900000	13140100000	10768100000	13
Tetrachloro-m-xylene	15879800000	15866400000	15978000000	16730900000	20310700000	16953200000	11

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Instrument ID: ECD_D Date(s) Analyzed: 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Toxaphene	500	1	6.24	6.14	6.34	33601800
		2	6.44	6.34	6.54	47528600
		3	7.15	7.05	7.25	87292700
		4	7.56	7.46	7.66	111357000
		5	7.93	7.83	8.03	63112600

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Alliance Contract: CAMP02

Lab Code: ACE SDG NO.: Q2543

Instrument ID: ECD_D Date(s) Analyzed: 06/17/2025 06/17/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Toxaphene	500	1	5.47	5.37	5.57	158160000
		2	5.65	5.55	5.75	108820000
		3	6.76	6.66	6.86	511856000
		4	7.20	7.10	7.30	350145000
		5	7.33	7.23	7.43	253920000

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Continuing Calib Date: 07/10/2025

Initial Calibration Date(s): 06/17/2025 06/17/2025

Continuing Calib Time: 12:30

Initial Calibration Time(s): 15:52 16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.01
delta-BHC	4.76	4.76	4.66	4.86	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.07	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.20	6.10	6.30	0.00
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.01
4,4'-DDD	6.70	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.91	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Continuing Calib Date: 07/10/2025

Initial Calibration Date(s): 06/17/2025

06/17/2025

Continuing Calib Time: 12:30

Initial Calibration Time(s): 15:52

16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.02	4.03	3.93	4.13	0.01
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.24	5.25	5.15	5.35	0.01
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.38	5.28	5.48	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2543
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/10/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089432.D **Time Analyzed:** 12:30

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.704	6.605	6.805	51.350	50.000	2.7
4,4'-DDE	6.195	6.096	6.296	50.690	50.000	1.4
4,4'-DDT	7.019	6.921	7.121	49.590	50.000	-0.8
Aldrin	5.270	5.171	5.371	51.560	50.000	3.1
alpha-BHC	3.998	3.899	4.099	52.080	50.000	4.2
alpha-Chlordane	6.026	5.927	6.127	50.700	50.000	1.4
beta-BHC	4.515	4.415	4.615	50.030	50.000	0.1
Decachlorobiphenyl	9.069	8.972	9.172	49.450	50.000	-1.1
delta-BHC	4.763	4.664	4.864	54.450	50.000	8.9
Dieldrin	6.346	6.247	6.447	51.040	50.000	2.1
Endosulfan I	6.073	5.975	6.175	50.780	50.000	1.6
Endosulfan II	6.785	6.686	6.886	51.070	50.000	2.1
Endosulfan sulfate	7.148	7.049	7.249	49.480	50.000	-1.0
Endrin	6.573	6.475	6.675	48.550	50.000	-2.9
Endrin aldehyde	6.914	6.815	7.015	48.380	50.000	-3.2
Endrin ketone	7.628	7.530	7.730	50.230	50.000	0.5
gamma-BHC (Lindane)	4.329	4.230	4.430	51.710	50.000	3.4
gamma-Chlordane	5.945	5.846	6.046	51.120	50.000	2.2
Heptachlor	4.928	4.829	5.029	51.590	50.000	3.2
Heptachlor epoxide	5.689	5.591	5.791	50.170	50.000	0.3
Methoxychlor	7.492	7.393	7.593	46.600	50.000	-6.8
Tetrachloro-m-xylene	3.549	3.450	3.650	51.680	50.000	3.4

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2543
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/10/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089432.D **Time Analyzed:** 12:30

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.927	5.830	6.030	52.780	50.000	5.6
4,4'-DDE	5.373	5.275	5.475	53.420	50.000	6.8
4,4'-DDT	6.181	6.084	6.284	51.610	50.000	3.2
Aldrin	4.366	4.269	4.469	53.750	50.000	7.5
alpha-BHC	3.391	3.293	3.493	53.650	50.000	7.3
alpha-Chlordane	5.188	5.091	5.291	53.190	50.000	6.4
beta-BHC	4.023	3.926	4.126	52.780	50.000	5.6
Decachlorobiphenyl	8.070	7.972	8.172	53.860	50.000	7.7
delta-BHC	4.260	4.162	4.362	53.590	50.000	7.2
Dieldrin	5.510	5.413	5.613	53.060	50.000	6.1
Endosulfan I	5.244	5.147	5.347	53.770	50.000	7.5
Endosulfan II	6.078	5.981	6.181	52.450	50.000	4.9
Endosulfan sulfate	6.479	6.383	6.583	52.420	50.000	4.8
Endrin	5.787	5.689	5.889	50.680	50.000	1.4
Endrin aldehyde	6.256	6.159	6.359	50.520	50.000	1.0
Endrin ketone	6.989	6.892	7.092	52.660	50.000	5.3
gamma-BHC (Lindane)	3.726	3.630	3.830	53.590	50.000	7.2
gamma-Chlordane	5.122	5.026	5.226	52.900	50.000	5.8
Heptachlor	4.081	3.983	4.183	52.390	50.000	4.8
Heptachlor epoxide	4.870	4.773	4.973	55.240	50.000	10.5
Methoxychlor	6.752	6.655	6.855	49.380	50.000	-1.2
Tetrachloro-m-xylene	2.879	2.780	2.980	54.960	50.000	9.9

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Continuing Calib Date: 07/10/2025

Initial Calibration Date(s): 06/17/2025

06/17/2025

Continuing Calib Time: 19:03

Initial Calibration Time(s): 15:52

16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	9.07	9.07	8.97	9.17	0.00
Tetrachloro-m-xylene	3.55	3.55	3.45	3.65	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.01
delta-BHC	4.76	4.76	4.66	4.86	0.00
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.93	4.93	4.83	5.03	0.00
Aldrin	5.27	5.27	5.17	5.37	0.00
Heptachlor epoxide	5.69	5.69	5.59	5.79	0.00
Endosulfan I	6.07	6.08	5.98	6.18	0.01
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.19	6.20	6.10	6.30	0.01
Endrin	6.57	6.58	6.48	6.68	0.01
Endosulfan II	6.79	6.79	6.69	6.89	0.01
4,4'-DDD	6.70	6.71	6.61	6.81	0.01
Endosulfan sulfate	7.15	7.15	7.05	7.25	0.00
4,4'-DDT	7.02	7.02	6.92	7.12	0.00
Methoxychlor	7.49	7.49	7.39	7.59	0.00
Endrin ketone	7.63	7.63	7.53	7.73	0.00
Endrin aldehyde	6.91	6.92	6.82	7.02	0.01
alpha-Chlordane	6.03	6.03	5.93	6.13	0.00
gamma-Chlordane	5.95	5.95	5.85	6.05	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Continuing Calib Date: 07/10/2025

Initial Calibration Date(s): 06/17/2025

06/17/2025

Continuing Calib Time: 19:03

Initial Calibration Time(s): 15:52

16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
Decachlorobiphenyl	8.07	8.07	7.97	8.17	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.39	3.39	3.29	3.49	0.00
beta-BHC	4.02	4.03	3.93	4.13	0.01
delta-BHC	4.26	4.26	4.16	4.36	0.00
gamma-BHC (Lindane)	3.73	3.73	3.63	3.83	0.00
Heptachlor	4.08	4.08	3.98	4.18	0.00
Aldrin	4.37	4.37	4.27	4.47	0.00
Heptachlor epoxide	4.87	4.87	4.77	4.97	0.00
Endosulfan I	5.25	5.25	5.15	5.35	0.00
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.37	5.38	5.28	5.48	0.01
Endrin	5.79	5.79	5.69	5.89	0.00
Endosulfan II	6.08	6.08	5.98	6.18	0.00
4,4'-DDD	5.93	5.93	5.83	6.03	0.00
Endosulfan sulfate	6.48	6.48	6.38	6.58	0.00
4,4'-DDT	6.18	6.18	6.08	6.28	0.00
Methoxychlor	6.75	6.76	6.66	6.86	0.01
Endrin ketone	6.99	6.99	6.89	7.09	0.00
Endrin aldehyde	6.26	6.26	6.16	6.36	0.00
alpha-Chlordane	5.19	5.19	5.09	5.29	0.00
gamma-Chlordane	5.12	5.13	5.03	5.23	0.01

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2543
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/10/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089448.D **Time Analyzed:** 19:03

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.704	6.605	6.805	48.150	50.000	-3.7
4,4'-DDE	6.194	6.096	6.296	50.330	50.000	0.7
4,4'-DDT	7.020	6.921	7.121	43.790	50.000	-12.4
Aldrin	5.270	5.171	5.371	53.130	50.000	6.3
alpha-BHC	3.999	3.899	4.099	53.870	50.000	7.7
alpha-Chlordane	6.026	5.927	6.127	50.530	50.000	1.1
beta-BHC	4.515	4.415	4.615	51.900	50.000	3.8
Decachlorobiphenyl	9.071	8.972	9.172	49.130	50.000	-1.7
delta-BHC	4.763	4.664	4.864	56.310	50.000	12.6
Dieldrin	6.346	6.247	6.447	50.360	50.000	0.7
Endosulfan I	6.073	5.975	6.175	50.400	50.000	0.8
Endosulfan II	6.785	6.686	6.886	46.770	50.000	-6.5
Endosulfan sulfate	7.149	7.049	7.249	46.270	50.000	-7.5
Endrin	6.573	6.475	6.675	45.900	50.000	-8.2
Endrin aldehyde	6.914	6.815	7.015	45.350	50.000	-9.3
Endrin ketone	7.629	7.530	7.730	44.450	50.000	-11.1
gamma-BHC (Lindane)	4.330	4.230	4.430	53.480	50.000	7.0
gamma-Chlordane	5.945	5.846	6.046	51.250	50.000	2.5
Heptachlor	4.929	4.829	5.029	51.830	50.000	3.7
Heptachlor epoxide	5.689	5.591	5.791	50.600	50.000	1.2
Methoxychlor	7.492	7.393	7.593	40.060	50.000	-19.9
Tetrachloro-m-xylene	3.550	3.450	3.650	51.250	50.000	2.5

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2543
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/10/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089448.D **Time Analyzed:** 19:03

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.928	5.830	6.030	52.630	50.000	5.3
4,4'-DDE	5.373	5.275	5.475	53.720	50.000	7.4
4,4'-DDT	6.181	6.084	6.284	47.410	50.000	-5.2
Aldrin	4.367	4.269	4.469	55.150	50.000	10.3
alpha-BHC	3.393	3.293	3.493	55.660	50.000	11.3
alpha-Chlordane	5.189	5.091	5.291	53.940	50.000	7.9
beta-BHC	4.024	3.926	4.126	54.460	50.000	8.9
Decachlorobiphenyl	8.070	7.972	8.172	44.480	50.000	-11.0
delta-BHC	4.261	4.162	4.362	55.350	50.000	10.7
Dieldrin	5.511	5.413	5.613	53.550	50.000	7.1
Endosulfan I	5.246	5.147	5.347	54.160	50.000	8.3
Endosulfan II	6.078	5.981	6.181	50.800	50.000	1.6
Endosulfan sulfate	6.480	6.383	6.583	49.420	50.000	-1.2
Endrin	5.787	5.689	5.889	51.950	50.000	3.9
Endrin aldehyde	6.257	6.159	6.359	48.410	50.000	-3.2
Endrin ketone	6.990	6.892	7.092	46.330	50.000	-7.3
gamma-BHC (Lindane)	3.727	3.630	3.830	55.360	50.000	10.7
gamma-Chlordane	5.124	5.026	5.226	54.290	50.000	8.6
Heptachlor	4.082	3.983	4.183	53.040	50.000	6.1
Heptachlor epoxide	4.871	4.773	4.973	55.620	50.000	11.2
Methoxychlor	6.752	6.655	6.855	43.270	50.000	-13.5
Tetrachloro-m-xylene	2.881	2.780	2.980	54.620	50.000	9.2

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D Date Analyzed: 06/17/2025

Lab Sample No.(PEM): PEM Time Analyzed: 15:25

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.071	8.970	9.170	21.440	20.000	7.2
Tetrachloro-m-xylene	3.550	3.500	3.600	19.860	20.000	-0.7
alpha-BHC	3.999	3.950	4.050	8.970	10.000	-10.3
beta-BHC	4.514	4.460	4.560	9.720	10.000	-2.8
gamma-BHC (Lindane)	4.330	4.280	4.380	9.320	10.000	-6.8
Endrin	6.574	6.500	6.640	50.260	50.000	0.5
4,4'-DDT	7.020	6.950	7.090	100.820	100.000	0.8
Methoxychlor	7.493	7.420	7.560	229.880	250.000	-8.0

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD088991.D Date Analyzed: 06/17/2025

Lab Sample No.(PEM): PEM Time Analyzed: 15:25

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	8.072	7.970	8.170	21.290	20.000	6.5
Tetrachloro-m-xylene	2.880	2.830	2.930	20.440	20.000	2.2
alpha-BHC	3.393	3.340	3.440	10.570	10.000	5.7
beta-BHC	4.025	3.970	4.080	10.750	10.000	7.5
gamma-BHC (Lindane)	3.729	3.680	3.780	10.580	10.000	5.8
Endrin	5.789	5.720	5.860	50.490	50.000	1.0
4,4'-DDT	6.183	6.110	6.250	96.080	100.000	-3.9
Methoxychlor	6.754	6.680	6.820	198.860	250.000	-20.5

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089428.D Date Analyzed: 07/10/2025

Lab Sample No.(PEM): PEM Time Analyzed: 10:27

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.072	8.970	9.170	22.230	20.000	11.2
Tetrachloro-m-xylene	3.550	3.500	3.600	21.150	20.000	5.8
alpha-BHC	3.999	3.950	4.050	9.910	10.000	-0.9
beta-BHC	4.516	4.470	4.570	10.840	10.000	8.4
gamma-BHC (Lindane)	4.330	4.280	4.380	10.390	10.000	3.9
Endrin	6.574	6.500	6.640	51.910	50.000	3.8
4,4'-DDT	7.021	6.950	7.090	104.610	100.000	4.6
Methoxychlor	7.493	7.420	7.560	235.400	250.000	-5.8

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 06/17/2025 06/17/2025

Client Sample No. (PEM): PEM - PD089428.D Date Analyzed: 07/10/2025

Lab Sample No.(PEM): PEM Time Analyzed: 10:27

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	8.070	7.970	8.170	23.690	20.000	18.5
Tetrachloro-m-xylene	2.880	2.830	2.930	23.410	20.000	17.1
alpha-BHC	3.392	3.340	3.440	12.350	10.000	23.5
beta-BHC	4.024	3.970	4.070	12.390	10.000	23.9
gamma-BHC (Lindane)	3.727	3.680	3.780	12.180	10.000	21.8
Endrin	5.788	5.720	5.860	53.360	50.000	6.7
4,4'-DDT	6.182	6.110	6.250	105.390	100.000	5.4
Methoxychlor	6.752	6.680	6.820	210.190	250.000	-15.9

Analytical Sequence

Client: CDM Smith	SDG No.: Q2543
Project: South River WM Replacement	Instrument ID: ECD_D
GC Column: ZB-MR1	ID: 0.32 (mm) Inst. Calib. Date(s): 06/17/2025 06/17/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
LBLK	LBLK	06/17/2025	15:11	PD088990.D	9.07	3.55
PEM	PEM	06/17/2025	15:25	PD088991.D	9.07	3.55
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	9.07	3.55
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	9.07	3.55
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	9.07	3.55
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	9.07	3.55
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	9.07	3.55
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	9.07	3.55
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	9.07	3.55
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	9.07	3.55
PEM	PEM	07/10/2025	10:27	PD089428.D	9.07	3.55
LBLK	LBLK	07/10/2025	12:16	PD089431.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/10/2025	12:30	PD089432.D	9.07	3.55
PB168784BL	PB168784BL	07/10/2025	13:31	PD089433.D	9.08	3.56
PB168784BS	PB168784BS	07/10/2025	14:02	PD089434.D	9.08	3.55
TP-41	Q2543-01	07/10/2025	15:09	PD089438.D	9.07	3.55
TP-49	Q2543-02	07/10/2025	15:23	PD089439.D	9.07	3.55
TP-23	Q2543-03	07/10/2025	15:37	PD089440.D	9.07	3.55
TP-23MS	Q2543-03MS	07/10/2025	15:50	PD089441.D	9.07	3.55
TP-23MSD	Q2543-03MSD	07/10/2025	16:04	PD089442.D	9.07	3.55
TP-23-99	Q2543-04	07/10/2025	16:17	PD089443.D	9.07	3.55
LBLK	LBLK	07/10/2025	17:12	PD089447.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/10/2025	19:03	PD089448.D	9.07	3.55

Analytical Sequence

Client: CDM Smith	SDG No.: Q2543
Project: South River WM Replacement	Instrument ID: ECD_D
GC Column: ZB-MR2	ID: 0.32 (mm) Inst. Calib. Date(s): 06/17/2025 06/17/2025

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

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	06/17/2025	15:11	PD088990.D	8.07	2.88
PEM	PEM	06/17/2025	15:25	PD088991.D	8.07	2.88
RESCHK	RESCHK	06/17/2025	15:39	PD088992.D	8.07	2.88
PSTDICC100	PSTDICC100	06/17/2025	15:52	PD088993.D	8.07	2.88
PSTDICC075	PSTDICC075	06/17/2025	16:06	PD088994.D	8.07	2.88
PSTDICC050	PSTDICC050	06/17/2025	16:20	PD088995.D	8.07	2.88
PSTDICC025	PSTDICC025	06/17/2025	16:33	PD088996.D	8.07	2.88
PSTDICC005	PSTDICC005	06/17/2025	16:47	PD088997.D	8.07	2.88
PCHLORICC500	PCHLORICC500	06/17/2025	17:28	PD089000.D	8.07	2.88
PTOXICC500	PTOXICC500	06/17/2025	18:36	PD089005.D	8.07	2.88
PEM	PEM	07/10/2025	10:27	PD089428.D	8.07	2.88
IBLK	IBLK	07/10/2025	12:16	PD089431.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/10/2025	12:30	PD089432.D	8.07	2.88
PB168784BL	PB168784BL	07/10/2025	13:31	PD089433.D	8.07	2.88
PB168784BS	PB168784BS	07/10/2025	14:02	PD089434.D	8.07	2.88
TP-41	Q2543-01	07/10/2025	15:09	PD089438.D	8.07	2.88
TP-49	Q2543-02	07/10/2025	15:23	PD089439.D	8.07	2.88
TP-23	Q2543-03	07/10/2025	15:37	PD089440.D	8.07	2.88
TP-23MS	Q2543-03MS	07/10/2025	15:50	PD089441.D	8.07	2.88
TP-23MSD	Q2543-03MSD	07/10/2025	16:04	PD089442.D	8.07	2.88
TP-23-99	Q2543-04	07/10/2025	16:17	PD089443.D	8.07	2.88
IBLK	IBLK	07/10/2025	17:12	PD089447.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/10/2025	19:03	PD089448.D	8.07	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168784BS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Lab Sample ID: PB168784BS

Date(s) Analyzed: 07/10/2025 07/10/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column:(2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.71	6.66	6.76	16.1	5.4
	2	5.93	5.88	5.98	17.0	
4,4'-DDE	1	6.20	6.15	6.25	15.6	7.4
	2	5.37	5.32	5.42	16.8	
4,4'-DDT	1	7.03	6.98	7.08	15.4	5.1
	2	6.18	6.13	6.23	16.2	
alpha-BHC	1	4.00	3.95	4.05	15.5	7.5
	2	3.39	3.34	3.44	16.7	
Aldrin	1	5.28	5.23	5.33	15.7	6.8
	2	4.37	4.32	4.42	16.8	
alpha-Chlordane	1	6.03	5.98	6.08	15.7	6.2
	2	5.19	5.14	5.24	16.7	
Endosulfan II	1	6.79	6.74	6.84	16.0	4.3
	2	6.08	6.03	6.13	16.7	
Endosulfan sulfate	1	7.15	7.10	7.20	15.7	6.2
	2	6.48	6.43	6.53	16.7	
beta-BHC	1	4.52	4.47	4.57	15.0	9.5
	2	4.02	3.97	4.07	16.5	
delta-BHC	1	4.77	4.72	4.82	16.7	0.6
	2	4.26	4.21	4.31	16.8	
Endosulfan I	1	6.08	6.03	6.13	15.7	8
	2	5.25	5.20	5.30	17.0	
Dieldrin	1	6.35	6.30	6.40	15.9	5.5
	2	5.51	5.46	5.56	16.8	
Endrin aldehyde	1	6.92	6.87	6.97	15.7	5
	2	6.26	6.21	6.31	16.5	
Methoxychlor	1	7.50	7.45	7.55	14.8	5.3
	2	6.75	6.70	6.80	15.6	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168784BS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Lab Sample ID: PB168784BS

Date(s) Analyzed: 07/10/2025 07/10/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column:(2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin ketone	1	7.63	7.58	7.68	16.1	6.6
	2	6.99	6.94	7.04	17.2	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	15.5	8
	2	3.73	3.68	3.78	16.8	
Heptachlor	1	4.93	4.88	4.98	15.7	4.4
	2	4.08	4.03	4.13	16.4	
Heptachlor epoxide	1	5.70	5.65	5.75	15.5	9.2
	2	4.87	4.82	4.92	17.0	
gamma-Chlordane	1	5.95	5.90	6.00	15.8	5.5
	2	5.12	5.07	5.17	16.7	
Endrin	1	6.58	6.53	6.63	14.9	5.9
	2	5.79	5.74	5.84	15.8	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Lab Sample ID: Q2543-03MS

Date(s) Analyzed: 07/10/2025 07/10/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column: (2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan II	1	6.79	6.74	6.84	14.1	6.8
	2	6.08	6.03	6.13	15.1	
4,4'-DDD	1	6.70	6.65	6.75	14.3	4.8
	2	5.93	5.88	5.98	15.0	
4,4'-DDT	1	7.02	6.97	7.07	13.3	5.8
	2	6.18	6.13	6.23	14.1	
Endrin aldehyde	1	6.91	6.86	6.96	14.4	1.4
	2	6.26	6.21	6.31	14.6	
Endosulfan sulfate	1	7.15	7.10	7.20	13.6	5.7
	2	6.48	6.43	6.53	14.4	
Methoxychlor	1	7.49	7.44	7.54	12.5	3.9
	2	6.75	6.70	6.80	13.0	
Endrin ketone	1	7.63	7.58	7.68	14.0	7.4
	2	6.99	6.94	7.04	13.0	
alpha-BHC	1	4.00	3.95	4.05	17.2	7.3
	2	3.39	3.34	3.44	18.5	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.9	8.5
	2	3.73	3.68	3.78	18.4	
Heptachlor	1	4.93	4.88	4.98	15.7	11.4
	2	4.08	4.03	4.13	17.6	
Aldrin	1	5.27	5.22	5.32	16.3	10.5
	2	4.37	4.32	4.42	18.1	
beta-BHC	1	4.52	4.47	4.57	16.0	11.2
	2	4.02	3.97	4.07	17.9	
delta-BHC	1	4.76	4.71	4.81	16.9	6.9
	2	4.26	4.21	4.31	18.1	
Heptachlor epoxide	1	5.69	5.64	5.74	15.1	15.9
	2	4.87	4.82	4.92	17.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Lab Sample ID: Q2543-03MS

Date(s) Analyzed: 07/10/2025 07/10/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column: (2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.07	6.02	6.12	14.9	13.8
	2	5.25	5.20	5.30	17.1	
gamma-Chlordane	1	5.95	5.90	6.00	14.8	13.8
	2	5.12	5.07	5.17	17.0	
alpha-Chlordane	1	6.03	5.98	6.08	14.8	13.2
	2	5.19	5.14	5.24	16.9	
4,4'-DDE	1	6.20	6.15	6.25	14.7	12.7
	2	5.37	5.32	5.42	16.7	
Dieldrin	1	6.35	6.30	6.40	14.7	12.7
	2	5.51	5.46	5.56	16.7	
Endrin	1	6.57	6.52	6.62	13.5	15.1
	2	5.79	5.74	5.84	15.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MSD

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Lab Sample ID: Q2543-03MSD

Date(s) Analyzed: 07/10/2025 07/10/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column:(2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.70	6.65	6.75	15.0	4.6
	2	5.93	5.88	5.98	15.7	
4,4'-DDT	1	7.02	6.97	7.07	13.5	7.1
	2	6.18	6.13	6.23	14.5	
alpha-BHC	1	4.00	3.95	4.05	17.4	6.1
	2	3.39	3.34	3.44	18.5	
Aldrin	1	5.27	5.22	5.32	16.4	11.5
	2	4.37	4.32	4.42	18.4	
alpha-Chlordane	1	6.03	5.98	6.08	15.5	12.1
	2	5.19	5.14	5.24	17.5	
4,4'-DDE	1	6.20	6.15	6.25	15.1	11.8
	2	5.37	5.32	5.42	17.0	
Endosulfan II	1	6.79	6.74	6.84	13.8	12.2
	2	6.08	6.03	6.13	15.6	
Endrin aldehyde	1	6.91	6.86	6.96	14.2	6.1
	2	6.26	6.21	6.31	15.1	
Endosulfan sulfate	1	7.15	7.10	7.20	14.2	6.1
	2	6.48	6.43	6.53	15.1	
Methoxychlor	1	7.49	7.44	7.54	12.8	3.1
	2	6.75	6.70	6.80	13.2	
Endrin ketone	1	7.63	7.58	7.68	13.8	2.2
	2	6.99	6.94	7.04	14.1	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	17.4	5.6
	2	3.73	3.68	3.78	18.4	
Heptachlor	1	4.93	4.88	4.98	16.0	9.5
	2	4.08	4.03	4.13	17.6	
beta-BHC	1	4.52	4.47	4.57	16.7	6.9
	2	4.02	3.97	4.07	17.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-23MSD

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2543

Lab Sample ID: Q2543-03MSD

Date(s) Analyzed: 07/10/2025 07/10/2025

Instrument ID (1): ECD_D

Instrument ID (2): ECD_D

GC Column: (1): ZB-MR1

ID: 0.32 (mm)

GC Column:(2): ZB-MR2

ID: 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
delta-BHC	1	4.76	4.71	4.81	17.8	3.3
	2	4.26	4.21	4.31	18.4	
Heptachlor epoxide	1	5.69	5.64	5.74	16.2	12.7
	2	4.87	4.82	4.92	18.4	
Endosulfan I	1	6.07	6.02	6.12	15.4	13.3
	2	5.25	5.20	5.30	17.6	
gamma-Chlordane	1	5.95	5.90	6.00	15.6	12.6
	2	5.12	5.07	5.17	17.7	
Dieldrin	1	6.35	6.30	6.40	15.2	10.6
	2	5.51	5.46	5.56	16.9	
Endrin	1	6.57	6.52	6.62	14.7	10.3
	2	5.79	5.74	5.84	16.3	