

LAB CHRONICLE

OrderID:	Q2484	OrderDate:	7/2/2025 9:23:00 AM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	--Select--,A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2484-01	TP-58	SOIL			07/01/25			07/01/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-02	TP-57	SOIL			07/01/25			07/01/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-03	TP-64	SOIL			07/01/25			07/01/25
			Diesel Range Organics	8015D		07/02/25	07/03/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-04	TP-107	SOIL			07/01/25			07/01/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/08/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-05	TP-106	SOIL			07/01/25			07/01/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	
			Gasoline Range Organics	8015D			07/03/25	
			PCB	8082A		07/02/25	07/02/25	
			Pesticide-TCL	8081B		07/02/25	07/02/25	
Q2484-06	TP-104	SOIL			07/01/25			07/01/25
			Diesel Range Organics	8015D		07/02/25	07/02/25	

LAB CHRONICLE

Gasoline Range Organics	8015D		07/03/25
PCB	8082A	07/02/25	07/02/25
Pesticide-TCL	8081B	07/02/25	07/02/25

A

B

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G

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Hit Summary Sheet
SW-846

SDG No.: Q2484

Order ID: Q2484

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-58								
Q2484-01	TP-58	SOIL	Dieldrin	7.10	P	0.16	2.00	ug/kg
Q2484-01	TP-58	SOIL	Endrin	1.70	J	0.16	2.00	ug/kg
Total Concentration:				8.800				
Client ID : TP-64								
Q2484-03	TP-64	SOIL	alpha-Chlordane	0.40	JP	0.14	1.90	ug/kg
Q2484-03	TP-64	SOIL	gamma-Chlordane	0.33	J	0.17	1.90	ug/kg
Total Concentration:				0.730				



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.2
Sample Wt/Vol:	30.01	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
PD089317.D	1	07/02/25 08:25	07/02/25 20:17	PB168693

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	0.45	U	0.45	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	7.10	P	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	1.70	J	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	0.17	U	0.17	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	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	38.5	*	20 - 144	193%	SPK: 20
877-09-8	Tetrachloro-m-xylene	13.7		19 - 148	68%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-58	SDG No.:	Q2484
Lab Sample ID:	Q2484-01	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86.2
Sample Wt/Vol:	30.01	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
PD089317.D	1	07/02/25 08:25	07/02/25 20:17	PB168693

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:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-57	SDG No.:	Q2484
Lab Sample ID:	Q2484-02	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	86
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:	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089318.D	1	07/02/25 08:25	07/02/25 20:31	PB168693

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	0.45	U	0.45	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	0.17	U	0.17	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	0.17	U	0.17	2.00	ug/kg
8001-35-2	Toxaphene	6.30	U	6.30	38.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.37		20 - 144	42%	SPK: 20
877-09-8	Tetrachloro-m-xylene	16.7		19 - 148	84%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/01/25	
Project:	South River WM Replacement		Date Received:	07/01/25	
Client Sample ID:	TP-57		SDG No.:	Q2484	
Lab Sample ID:	Q2484-02		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	86	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
PD089318.D	1	07/02/25 08:25	07/02/25 20:31	PB168693

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

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.4
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:	
		Final Vol:	10000
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD089319.D	1	07/02/25 08:25	07/02/25 20:44	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.44	U	0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.21	U	0.21	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.21	U	0.21	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.40	JP	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.33	J	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.2	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.69		20 - 144	43%	SPK: 20
877-09-8	Tetrachloro-m-xylene	10.1		19 - 148	50%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-64	SDG No.:	Q2484
Lab Sample ID:	Q2484-03	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	88.4
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
PD089319.D	1	07/02/25 08:25	07/02/25 20:44	PB168693

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

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-107	SDG No.:	Q2484
Lab Sample ID:	Q2484-04	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	83.8
Sample Wt/Vol:	30.02	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
PD089320.D	1	07/02/25 08:25	07/02/25 20:58	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.16	U	0.16	2.00	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	2.00	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	2.00	ug/kg
58-89-9	gamma-BHC (Lindane)	0.17	U	0.17	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	0.23	U	0.23	2.00	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	2.00	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	2.00	ug/kg
72-55-9	4,4-DDE	0.17	U	0.17	2.00	ug/kg
72-20-8	Endrin	0.17	U	0.17	2.00	ug/kg
33213-65-9	Endosulfan II	0.35	U	0.35	2.00	ug/kg
72-54-8	4,4-DDD	0.18	U	0.18	2.00	ug/kg
1031-07-8	Endosulfan Sulfate	0.16	U	0.16	2.00	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	2.00	ug/kg
72-43-5	Methoxychlor	0.44	U	0.44	2.00	ug/kg
53494-70-5	Endrin ketone	0.23	U	0.23	2.00	ug/kg
7421-93-4	Endrin aldehyde	0.44	U	0.44	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	6.50	U	6.50	39.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	8.00		20 - 144	40%	SPK: 20
877-09-8	Tetrachloro-m-xylene	12.0		19 - 148	60%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/01/25	
Project:	South River WM Replacement		Date Received:	07/01/25	
Client Sample ID:	TP-107		SDG No.:	Q2484	
Lab Sample ID:	Q2484-04		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	83.8	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
PD089320.D	1	07/02/25 08:25	07/02/25 20:58	PB168693

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

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-106	SDG No.:	Q2484
Lab Sample ID:	Q2484-05	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.9
Sample Wt/Vol:	30.09	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
PD089321.D	1	07/02/25 08:25	07/02/25 21:12	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.20	U	0.20	1.90	ug/kg
319-86-8	delta-BHC	0.44	U	0.44	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.10	U	6.10	37.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.7		20 - 144	53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.7		19 - 148	93%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/01/25	
Project:	South River WM Replacement		Date Received:	07/01/25	
Client Sample ID:	TP-106		SDG No.:	Q2484	
Lab Sample ID:	Q2484-05		Matrix:	SOIL	
Analytical Method:	8081B		% Solid:	87.9	Decanted:
Sample Wt/Vol:	30.09	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
PD089321.D	1	07/02/25 08:25	07/02/25 21:12	PB168693

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:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.3
Sample Wt/Vol:	30.06	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
PD089322.D	1	07/02/25 08:25	07/02/25 21:26	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.15	U	0.15	1.90	ug/kg
319-85-7	beta-BHC	0.21	U	0.21	1.90	ug/kg
319-86-8	delta-BHC	0.45	U	0.45	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.16	U	0.16	1.90	ug/kg
76-44-8	Heptachlor	0.14	U	0.14	1.90	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.22	U	0.22	1.90	ug/kg
959-98-8	Endosulfan I	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	1.90	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.17	U	0.17	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.15	U	0.15	1.90	ug/kg
50-29-3	4,4-DDT	0.16	U	0.16	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.14	U	0.14	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.17	U	0.17	1.90	ug/kg
8001-35-2	Toxaphene	6.20	U	6.20	37.7	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.5		20 - 144	52%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.4		19 - 148	87%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	TP-104	SDG No.:	Q2484
Lab Sample ID:	Q2484-06	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	87.3
Sample Wt/Vol:	30.06	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
PD089322.D	1	07/02/25 08:25	07/02/25 21:26	PB168693

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



QC SUMMARY

Surrogate Summary

SDG No.: Q2484

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-PD089301.D	PIBLK-PD089301.D	Decachlorobiphen	1	20	18.9	95		57	171
		Tetrachloro-m-xyl	1	20	18.4	92		61	148
		Decachlorobiphen	2	20	18.8	94		57	171
		Tetrachloro-m-xyl	2	20	20.7	103		61	148
PB168693BL	PB168693BL	Decachlorobiphen	1	20	17.6	88		20	144
		Tetrachloro-m-xyl	1	20	16.9	85		19	148
		Decachlorobiphen	2	20	17.8	89		20	144
		Tetrachloro-m-xyl	2	20	18.3	92		19	148
PB168693BS	PB168693BS	Decachlorobiphen	1	20	20.6	103		20	144
		Tetrachloro-m-xyl	1	20	19.0	95		19	148
		Decachlorobiphen	2	20	21.1	105		20	144
		Tetrachloro-m-xyl	2	20	22.7	113		19	148
Q2475-01MS	SOIL-PILEMS	Decachlorobiphen	1	20	20.2	101		20	144
		Tetrachloro-m-xyl	1	20	13.5	68		19	148
		Decachlorobiphen	2	20	16.2	81		20	144
		Tetrachloro-m-xyl	2	20	15.3	77		19	148
Q2475-01MSD	SOIL-PILEMSD	Decachlorobiphen	1	20	20.1	101		20	144
		Tetrachloro-m-xyl	1	20	13.5	68		19	148
		Decachlorobiphen	2	20	16.0	80		20	144
		Tetrachloro-m-xyl	2	20	15.1	75		19	148
I.BLK-PD089310.D	PIBLK-PD089310.D	Decachlorobiphen	1	20	18.3	91		57	171
		Tetrachloro-m-xyl	1	20	18.6	93		61	148
		Decachlorobiphen	2	20	18.8	94		57	171
		Tetrachloro-m-xyl	2	20	20.6	103		61	148
Q2484-01	TP-58	Decachlorobiphen	1	20	38.5	193	*	20	144
		Tetrachloro-m-xyl	1	20	12.1	60		19	148
		Decachlorobiphen	2	20	8.45	42		20	144
		Tetrachloro-m-xyl	2	20	13.7	68		19	148
Q2484-02	TP-57	Decachlorobiphen	1	20	8.37	42		20	144
		Tetrachloro-m-xyl	1	20	15.5	78		19	148
		Decachlorobiphen	2	20	7.82	39		20	144
		Tetrachloro-m-xyl	2	20	16.7	84		19	148
Q2484-03	TP-64	Decachlorobiphen	1	20	8.69	43		20	144
		Tetrachloro-m-xyl	1	20	8.74	44		19	148
		Decachlorobiphen	2	20	4.30	22		20	144
		Tetrachloro-m-xyl	2	20	10.1	50		19	148
Q2484-04	TP-107	Decachlorobiphen	1	20	8.00	40		20	144

Surrogate Summary

SDG No.: Q2484

Client: CDM Smith

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Recovery(%)	Qual	Limits(%)	
								Low	High
Q2484-04	TP-107	Tetrachloro-m-xyl	1	20	10.7	54		19	148
		Decachlorobiphen	2	20	5.87	29		20	144
Q2484-05	TP-106	Tetrachloro-m-xyl	2	20	12.0	60		19	148
		Decachlorobiphen	1	20	10.7	53		20	144
		Tetrachloro-m-xyl	1	20	16.9	85		19	148
		Decachlorobiphen	2	20	8.52	43		20	144
		Tetrachloro-m-xyl	2	20	18.7	93		19	148
Q2484-06	TP-104	Decachlorobiphen	1	20	10.5	52		20	144
		Tetrachloro-m-xyl	1	20	16.1	81		19	148
		Decachlorobiphen	2	20	8.48	42		20	144
		Tetrachloro-m-xyl	2	20	17.4	87		19	148
I.BLK-PD089323.D	PIBLK-PD089323.D	Decachlorobiphen	1	20	16.5	82		57	171
		Tetrachloro-m-xyl	1	20	19.0	95		61	148
		Decachlorobiphen	2	20	13.2	66		57	171
		Tetrachloro-m-xyl	2	20	21.3	107		61	148

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2484</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089307.D</u>

	Parameter	Spike	Sample	Result	Units	Rec	Rec	RPD	RPD	Low	Limits	RPD
			Result				Qual		Qual		High	
Lab Sample ID:	Q2475-01MS	Client Sample ID:		SOIL-PILEMS								
	(Column 1)											
	alpha-BHC	20.9	0	18.6	ug/kg	89				60	144	
	beta-BHC	20.9	0	15.0	ug/kg	72				54	143	
	delta-BHC	20.9	0	20.3	ug/kg	97				29	151	
	gamma-BHC (Lindane)	20.9	0	20.2	ug/kg	97				61	140	
	Heptachlor	20.9	0	19.3	ug/kg	92				63	135	
	Aldrin	20.9	0	19.9	ug/kg	95				49	139	
	Heptachlor epoxide	20.9	0	18.4	ug/kg	88				41	156	
	Endosulfan I	20.9	0	20.0	ug/kg	96				56	142	
	Dieldrin	20.9	0.42	18.6	ug/kg	93				47	161	
	4,4'-DDE	20.9	0	15.3	ug/kg	73				55	136	
	Endrin	20.9	0	18.2	ug/kg	87				57	139	
	Endosulfan II	20.9	0	18.0	ug/kg	86				40	163	
	4,4'-DDD	20.9	0	20.8	ug/kg	100				47	163	
	Endosulfan sulfate	20.9	0	17.5	ug/kg	84				62	139	
	4,4'-DDT	20.9	0.37	17.4	ug/kg	80				51	146	
	Methoxychlor	20.9	0	15.4	ug/kg	74				54	136	
	Endrin ketone	20.9	0	17.2	ug/kg	82				60	129	
	Endrin aldehyde	20.9	0	18.4	ug/kg	88				59	132	
	alpha-Chlordane	20.9	4.4	22.5	ug/kg	87				39	166	
	gamma-Chlordane	20.9	1.9	21.6	ug/kg	94				44	175	
Lab Sample ID:	Q2475-01MS	Client Sample ID:		SOIL-PILEMS								
	(Column 2)											
	alpha-BHC	20.9	0	18.9	ug/kg	90				60	144	
	beta-BHC	20.9	0	20.5	ug/kg	98				54	143	
	delta-BHC	20.9	0	18.7	ug/kg	89				29	151	
	gamma-BHC (Lindane)	20.9	0	18.9	ug/kg	90				61	140	
	Heptachlor	20.9	0	19.0	ug/kg	91				63	135	
	Aldrin	20.9	0	18.6	ug/kg	89				49	139	
	Heptachlor epoxide	20.9	0	20.2	ug/kg	97				41	156	
	Endosulfan I	20.9	0	20.0	ug/kg	96				56	142	
	Dieldrin	20.9	1.6	21.0	ug/kg	100				47	161	
	4,4'-DDE	20.9	0	19.3	ug/kg	92				55	136	
	Endrin	20.9	0	18.6	ug/kg	89				57	139	
	Endosulfan II	20.9	0	18.6	ug/kg	89				40	163	
	4,4'-DDD	20.9	0	16.2	ug/kg	78				47	163	
	Endosulfan sulfate	20.9	0	17.2	ug/kg	82				62	139	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2484</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089307.D</u>

Parameter	Spike	Sample		Units	Rec	Rec	RPD		Limits	RPD
		Result	Result				Qual	RPD		
4,4'-DDT	20.9	0.77	16.8	ug/kg	80				51	146
Methoxychlor	20.9	0	14.8	ug/kg	71				54	136
Endrin ketone	20.9	0	16.1	ug/kg	77				60	129
Endrin aldehyde	20.9	0	18.6	ug/kg	89				59	132
alpha-Chlordane	20.9	2.1	22.0	ug/kg	105				39	166
gamma-Chlordane	20.9	1.2	19.5	ug/kg	93				44	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2484</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089308.D</u>

	Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD		Low	Limits	
			Result					Qual	High		RPD	
Lab Sample ID:	Q2475-01MSD (Column 1)	Client Sample ID:	SOIL-PILEMSD									
	alpha-BHC	20.89	0	18.7	ug/kg	90		1		60	144	20
	beta-BHC	20.89	0	15.3	ug/kg	73		1		54	143	20
	delta-BHC	20.89	0	20.0	ug/kg	96		1		29	151	20
	gamma-BHC (Lindane)	20.89	0	19.8	ug/kg	95		2		61	140	20
	Heptachlor	20.89	0	18.4	ug/kg	88		4		63	135	20
	Aldrin	20.89	0	19.3	ug/kg	92		3		49	139	20
	Heptachlor epoxide	20.89	0	18.2	ug/kg	87		1		41	156	20
	Endosulfan I	20.89	0	20.1	ug/kg	96		0		56	142	20
	Dieldrin	20.89	0.42	18.4	ug/kg	92		1		47	161	20
	4,4'-DDE	20.89	0	15.0	ug/kg	72		1		55	136	20
	Endrin	20.89	0	17.8	ug/kg	85		2		57	139	20
	Endosulfan II	20.89	0	17.7	ug/kg	85		1		40	163	20
	4,4'-DDD	20.89	0	21.4	ug/kg	102		2		47	163	20
	Endosulfan sulfate	20.89	0	17.3	ug/kg	83		1		62	139	20
	4,4'-DDT	20.89	0.37	16.2	ug/kg	74		8		51	146	20
	Methoxychlor	20.89	0	15.9	ug/kg	76		3		54	136	20
	Endrin ketone	20.89	0	17.3	ug/kg	83		1		60	129	20
	Endrin aldehyde	20.89	0	18.0	ug/kg	86		2		59	132	20
	alpha-Chlordane	20.89	4.4	22.2	ug/kg	85		2		39	166	20
	gamma-Chlordane	20.89	1.9	19.3	ug/kg	83		12		44	175	20
Lab Sample ID:	Q2475-01MSD (Column 2)	Client Sample ID:	SOIL-PILEMSD									
	alpha-BHC	20.89	0	18.7	ug/kg	90		0		60	144	20
	beta-BHC	20.89	0	20.4	ug/kg	98		0		54	143	20
	delta-BHC	20.89	0	18.5	ug/kg	89		0		29	151	20
	gamma-BHC (Lindane)	20.89	0	18.7	ug/kg	90		0		61	140	20
	Heptachlor	20.89	0	18.2	ug/kg	87		4		63	135	20
	Aldrin	20.89	0	18.5	ug/kg	89		0		49	139	20
	Heptachlor epoxide	20.89	0	20.3	ug/kg	97		0		41	156	20
	Endosulfan I	20.89	0	20.2	ug/kg	97		1		56	142	20
	Dieldrin	20.89	1.6	20.9	ug/kg	100		0		47	161	20
	4,4'-DDE	20.89	0	19.1	ug/kg	91		1		55	136	20
	Endrin	20.89	0	18.7	ug/kg	90		1		57	139	20
	Endosulfan II	20.89	0	18.4	ug/kg	88		1		40	163	20
	4,4'-DDD	20.89	0	16.3	ug/kg	78		0		47	163	20
	Endosulfan sulfate	20.89	0	16.9	ug/kg	81		1		62	139	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2484</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PD089308.D</u>

Parameter	Spike	Sample		Units	Rec	Rec Qual	RPD		Limits High	RPD
		Result	Result				RPD	Qual		
4,4'-DDT	20.89	0.77	15.8	ug/kg	76		5		51	20
Methoxychlor	20.89	0	14.3	ug/kg	68		4		54	20
Endrin ketone	20.89	0	15.9	ug/kg	76		1		60	20
Endrin aldehyde	20.89	0	17.8	ug/kg	85		5		59	20
alpha-Chlordane	20.89	2.1	21.9	ug/kg	105		0		39	20
gamma-Chlordane	20.89	1.2	18.6	ug/kg	89		4		44	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2484</u>	Analytical Method:	<u>8081B</u>
Client:	<u>CDM Smith</u>	Datafile :	<u>PD089305.D</u>

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168693BS (Column 1)	alpha-BHC	16.65	16.2	ug/kg	97				84	123	
	beta-BHC	16.65	15.8	ug/kg	95				82	123	
	delta-BHC	16.65	17.6	ug/kg	106				83	126	
	gamma-BHC (Lindane)	16.65	16.3	ug/kg	98				83	125	
	Heptachlor	16.65	15.9	ug/kg	95				83	122	
	Aldrin	16.65	16.4	ug/kg	98				82	124	
	Heptachlor epoxide	16.65	16.0	ug/kg	96				83	120	
	Endosulfan I	16.65	16.4	ug/kg	98				81	124	
	Dieldrin	16.65	16.4	ug/kg	98				85	121	
	4,4'-DDE	16.65	15.6	ug/kg	94				81	123	
	Endrin	16.65	15.6	ug/kg	94				76	130	
	Endosulfan II	16.65	15.8	ug/kg	95				80	125	
	4,4'-DDD	16.65	17.8	ug/kg	107				80	131	
	Endosulfan sulfate	16.65	15.8	ug/kg	95				81	122	
	4,4'-DDT	16.65	14.6	ug/kg	88				70	129	
	Methoxychlor	16.65	14.9	ug/kg	89				60	119	
	Endrin ketone	16.65	16.1	ug/kg	97				77	132	
	Endrin aldehyde	16.65	16.2	ug/kg	97				79	124	
	alpha-Chlordane	16.65	16.2	ug/kg	97				84	120	
	gamma-Chlordane	16.65	16.2	ug/kg	97				83	122	
	PB168693BS (Column 2)	alpha-BHC	16.65	16.6	ug/kg	100				84	123
beta-BHC		16.65	15.7	ug/kg	94				82	123	
delta-BHC		16.65	16.2	ug/kg	97				83	126	
gamma-BHC (Lindane)		16.65	16.0	ug/kg	96				83	125	
Heptachlor		16.65	15.6	ug/kg	94				83	122	
Aldrin		16.65	16.2	ug/kg	97				82	124	
Heptachlor epoxide		16.65	16.4	ug/kg	98				83	120	
Endosulfan I		16.65	14.4	ug/kg	86				81	124	
Dieldrin		16.65	16.1	ug/kg	97				85	121	
4,4'-DDE		16.65	16.2	ug/kg	97				81	123	
Endrin		16.65	17.4	ug/kg	105				76	130	
Endosulfan II		16.65	16.0	ug/kg	96				80	125	
4,4'-DDD		16.65	15.7	ug/kg	94				80	131	
Endosulfan sulfate		16.65	15.6	ug/kg	94				81	122	
4,4'-DDT		16.65	14.6	ug/kg	88				70	129	
Methoxychlor		16.65	15.0	ug/kg	90				60	119	
Endrin ketone		16.65	16.7	ug/kg	100				77	132	
Endrin aldehyde		16.65	16.1	ug/kg	97				79	124	
alpha-Chlordane		16.65	15.9	ug/kg	95				84	120	
gamma-Chlordane		16.65	15.9	ug/kg	95				83	122	

4C

PESTICIDE METHOD BLANK SUMMARY

Client ID

PB168693BL

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: PB168693BL

Lab File ID: PD089304.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 07/02/2025

Date Analyzed (1): 07/02/2025

Date Analyzed (2): 07/02/2025

Time Analyzed (1): 16:29

Time Analyzed (2): 16:29

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
PB168693BS	PB168693BS	PD089305.D	07/02/2025	07/02/2025
SOIL-PILEMS	Q2475-01MS	PD089307.D	07/02/2025	07/02/2025
SOIL-PILEMSD	Q2475-01MSD	PD089308.D	07/02/2025	07/02/2025
TP-58	Q2484-01	PD089317.D	07/02/2025	07/02/2025
TP-57	Q2484-02	PD089318.D	07/02/2025	07/02/2025
TP-64	Q2484-03	PD089319.D	07/02/2025	07/02/2025
TP-107	Q2484-04	PD089320.D	07/02/2025	07/02/2025
TP-106	Q2484-05	PD089321.D	07/02/2025	07/02/2025
TP-104	Q2484-06	PD089322.D	07/02/2025	07/02/2025

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168693BL	SDG No.:	Q2484
Lab Sample ID:	PB168693BL	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
PD089304.D	1	07/02/25 08:25	07/02/25 16:29	PB168693

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	17.8		20 - 144	89%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		19 - 148	92%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168693BL		SDG No.:	Q2484	
Lab Sample ID:	PB168693BL		Matrix:	SOIL	
Analytical Method:	8081B		% 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
PD089304.D	1	07/02/25 08:25	07/02/25 16:29	PB168693

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.:	Q2484
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	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.:	Q2484	
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:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089301.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089301.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
PD089301.D	1		07/02/25	pd070325

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	18.9		57 - 171	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.7		61 - 148	103%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089301.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089301.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
PD089301.D	1		07/02/25	pd070325

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

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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:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089310.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089310.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
PD089310.D	1		07/02/25	pd070325

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	18.8		57 - 171	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		61 - 148	103%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/02/25	
Project:	South River WM Replacement		Date Received:	07/02/25	
Client Sample ID:	PIBLK-PD089310.D		SDG No.:	Q2484	
Lab Sample ID:	I.BLK-PD089310.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
PD089310.D	1		07/02/25	pd070325

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:	07/02/25
Project:	South River WM Replacement	Date Received:	07/02/25
Client Sample ID:	PIBLK-PD089323.D	SDG No.:	Q2484
Lab Sample ID:	I.BLK-PD089323.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
PD089323.D	1		07/02/25	pd070325

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	16.5		57 - 171	82%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		61 - 148	107%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:	07/02/25	
Project:	South River WM Replacement		Date Received:	07/02/25	
Client Sample ID:	PIBLK-PD089323.D		SDG No.:	Q2484	
Lab Sample ID:	I.BLK-PD089323.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
PD089323.D	1		07/02/25	pd070325

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:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168693BS	SDG No.:	Q2484
Lab Sample ID:	PB168693BS	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
PD089305.D	1	07/02/25 08:25	07/02/25 17:20	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	16.6		0.13	1.70	ug/kg
319-85-7	beta-BHC	15.8		0.18	1.70	ug/kg
319-86-8	delta-BHC	17.6		0.39	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	16.3		0.14	1.70	ug/kg
76-44-8	Heptachlor	15.9		0.12	1.70	ug/kg
309-00-2	Aldrin	16.4		0.12	1.70	ug/kg
1024-57-3	Heptachlor epoxide	16.4		0.19	1.70	ug/kg
959-98-8	Endosulfan I	16.4		0.14	1.70	ug/kg
60-57-1	Dieldrin	16.4		0.14	1.70	ug/kg
72-55-9	4,4-DDE	16.2		0.14	1.70	ug/kg
72-20-8	Endrin	17.4		0.14	1.70	ug/kg
33213-65-9	Endosulfan II	16.0		0.29	1.70	ug/kg
72-54-8	4,4-DDD	17.8		0.15	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	15.8		0.13	1.70	ug/kg
50-29-3	4,4-DDT	14.6		0.14	1.70	ug/kg
72-43-5	Methoxychlor	15.0		0.37	1.70	ug/kg
53494-70-5	Endrin ketone	16.7		0.19	1.70	ug/kg
7421-93-4	Endrin aldehyde	16.2		0.37	1.70	ug/kg
5103-71-9	alpha-Chlordane	16.2		0.12	1.70	ug/kg
5103-74-2	gamma-Chlordane	16.2		0.15	1.70	ug/kg
8001-35-2	Toxaphene	5.40	U	5.40	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.1		20 - 144	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.7		19 - 148	113%	SPK: 20

Report of Analysis

Client:	CDM Smith		Date Collected:		
Project:	South River WM Replacement		Date Received:		
Client Sample ID:	PB168693BS		SDG No.:	Q2484	
Lab Sample ID:	PB168693BS		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
PD089305.D	1	07/02/25 08:25	07/02/25 17:20	PB168693

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:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7
Sample Wt/Vol:	30.02	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
PD089307.D	1	07/02/25 08:25	07/02/25 17:47	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.9		0.16	2.10	ug/kg
319-85-7	beta-BHC	20.5		0.23	2.10	ug/kg
319-86-8	delta-BHC	20.3		0.49	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	20.2		0.18	2.10	ug/kg
76-44-8	Heptachlor	19.3		0.15	2.10	ug/kg
309-00-2	Aldrin	19.9		0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	20.2		0.24	2.10	ug/kg
959-98-8	Endosulfan I	20.0		0.18	2.10	ug/kg
60-57-1	Dieldrin	21.0		0.18	2.10	ug/kg
72-55-9	4,4-DDE	19.3		0.18	2.10	ug/kg
72-20-8	Endrin	18.6		0.18	2.10	ug/kg
33213-65-9	Endosulfan II	18.6		0.36	2.10	ug/kg
72-54-8	4,4-DDD	20.8		0.19	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	17.5		0.16	2.10	ug/kg
50-29-3	4,4-DDT	17.4		0.18	2.10	ug/kg
72-43-5	Methoxychlor	15.4		0.46	2.10	ug/kg
53494-70-5	Endrin ketone	17.2		0.24	2.10	ug/kg
7421-93-4	Endrin aldehyde	18.6		0.46	2.10	ug/kg
5103-71-9	alpha-Chlordane	22.5		0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	21.6		0.19	2.10	ug/kg
8001-35-2	Toxaphene	6.80	U	6.80	41.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.2		20 - 144	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.3		19 - 148	77%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMS	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MS	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7
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
PD089307.D	1	07/02/25 08:25	07/02/25 17:47	PB168693

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

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P = Indicates >25% difference for detected concentrations between the two GC columns

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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:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7
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
PD089308.D	1	07/02/25 08:25	07/02/25 18:00	PB168693

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	18.7		0.16	2.10	ug/kg
319-85-7	beta-BHC	20.4		0.23	2.10	ug/kg
319-86-8	delta-BHC	20.0		0.49	2.10	ug/kg
58-89-9	gamma-BHC (Lindane)	19.8		0.18	2.10	ug/kg
76-44-8	Heptachlor	18.4		0.15	2.10	ug/kg
309-00-2	Aldrin	19.3		0.15	2.10	ug/kg
1024-57-3	Heptachlor epoxide	20.3		0.24	2.10	ug/kg
959-98-8	Endosulfan I	20.2		0.18	2.10	ug/kg
60-57-1	Dieldrin	20.9		0.18	2.10	ug/kg
72-55-9	4,4-DDE	19.1		0.18	2.10	ug/kg
72-20-8	Endrin	18.7		0.18	2.10	ug/kg
33213-65-9	Endosulfan II	18.4		0.36	2.10	ug/kg
72-54-8	4,4-DDD	21.4		0.19	2.10	ug/kg
1031-07-8	Endosulfan Sulfate	17.3		0.16	2.10	ug/kg
50-29-3	4,4-DDT	16.2		0.18	2.10	ug/kg
72-43-5	Methoxychlor	15.9		0.46	2.10	ug/kg
53494-70-5	Endrin ketone	17.3		0.24	2.10	ug/kg
7421-93-4	Endrin aldehyde	18.0		0.46	2.10	ug/kg
5103-71-9	alpha-Chlordane	22.2		0.15	2.10	ug/kg
5103-74-2	gamma-Chlordane	19.3		0.19	2.10	ug/kg
8001-35-2	Toxaphene	6.80	U	6.80	41.4	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.1		20 - 144	101%	SPK: 20
877-09-8	Tetrachloro-m-xylene	15.1		19 - 148	75%	SPK: 20

Report of Analysis

Client:	CDM Smith	Date Collected:	07/01/25
Project:	South River WM Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILEMSD	SDG No.:	Q2484
Lab Sample ID:	Q2475-01MSD	Matrix:	SOIL
Analytical Method:	8081B	% Solid:	79.7
Sample Wt/Vol:	30.03	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
PD089308.D	1	07/02/25 08:25	07/02/25 18:00	PB168693

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

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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CALIBRATION SUMMARY

A
B
C
D
E
F
G
H

Contract: **CAMP02**

SDG NO.: Q2484

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.: Q2484

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:		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]

CALIBRATION FACTOR OF INITIAL CALIBRATION

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

Contract: CAMP02
SDG NO.: Q2484

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.: Q2484

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.: Q2484

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.: Q2484

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.: Q2484

Continuing Calib Date: 07/02/2025

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

06/17/2025

Continuing Calib Time: 09:55

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	0.00
delta-BHC	4.77	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	0.00
4,4'-DDD	6.71	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	6.92	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.: Q2484

Continuing Calib Date: 07/02/2025

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

06/17/2025

Continuing Calib Time: 09:55

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	4.03	4.03	3.93	4.13	0.00
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.:** Q2484
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089303.D **Time Analyzed:** 09:55

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.705	6.605	6.805	52.380	50.000	4.8
4,4'-DDE	6.195	6.096	6.296	49.640	50.000	-0.7
4,4'-DDT	7.021	6.921	7.121	43.520	50.000	-13.0
Aldrin	5.271	5.171	5.371	52.470	50.000	4.9
alpha-BHC	4.000	3.899	4.099	52.780	50.000	5.6
alpha-Chlordane	6.027	5.927	6.127	51.270	50.000	2.5
beta-BHC	4.516	4.415	4.615	50.560	50.000	1.1
Decachlorobiphenyl	9.073	8.972	9.172	47.480	50.000	-5.0
delta-BHC	4.765	4.664	4.864	54.640	50.000	9.3
Dieldrin	6.347	6.247	6.447	50.990	50.000	2.0
Endosulfan I	6.074	5.975	6.175	51.230	50.000	2.5
Endosulfan II	6.786	6.686	6.886	50.120	50.000	0.2
Endosulfan sulfate	7.149	7.049	7.249	48.630	50.000	-2.7
Endrin	6.574	6.475	6.675	47.290	50.000	-5.4
Endrin aldehyde	6.915	6.815	7.015	48.640	50.000	-2.7
Endrin ketone	7.630	7.530	7.730	49.520	50.000	-1.0
gamma-BHC (Lindane)	4.330	4.230	4.430	52.300	50.000	4.6
gamma-Chlordane	5.946	5.846	6.046	52.420	50.000	4.8
Heptachlor	4.929	4.829	5.029	50.310	50.000	0.6
Heptachlor epoxide	5.691	5.591	5.791	50.830	50.000	1.7
Methoxychlor	7.493	7.393	7.593	49.750	50.000	-0.5
Tetrachloro-m-xylene	3.550	3.450	3.650	52.390	50.000	4.8

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2484
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL01 **Date Analyzed:** 07/02/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089303.D **Time Analyzed:** 09:55

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.929	5.830	6.030	49.850	50.000	-0.3
4,4'-DDE	5.374	5.275	5.475	49.720	50.000	-0.6
4,4'-DDT	6.183	6.084	6.284	43.110	50.000	-13.8
Aldrin	4.368	4.269	4.469	50.690	50.000	1.4
alpha-BHC	3.393	3.293	3.493	51.360	50.000	2.7
alpha-Chlordane	5.189	5.091	5.291	50.090	50.000	0.2
beta-BHC	4.025	3.926	4.126	48.780	50.000	-2.4
Decachlorobiphenyl	8.071	7.972	8.172	46.580	50.000	-6.8
delta-BHC	4.262	4.162	4.362	50.000	50.000	0.0
Dieldrin	5.510	5.413	5.613	50.060	50.000	0.1
Endosulfan I	5.246	5.147	5.347	50.240	50.000	0.5
Endosulfan II	6.080	5.981	6.181	48.840	50.000	-2.3
Endosulfan sulfate	6.481	6.383	6.583	47.770	50.000	-4.5
Endrin	5.789	5.689	5.889	49.970	50.000	-0.1
Endrin aldehyde	6.258	6.159	6.359	47.620	50.000	-4.8
Endrin ketone	6.990	6.892	7.092	48.880	50.000	-2.2
gamma-BHC (Lindane)	3.729	3.630	3.830	49.430	50.000	-1.1
gamma-Chlordane	5.124	5.026	5.226	50.640	50.000	1.3
Heptachlor	4.082	3.983	4.183	48.100	50.000	-3.8
Heptachlor epoxide	4.872	4.773	4.973	52.590	50.000	5.2
Methoxychlor	6.753	6.655	6.855	49.510	50.000	-1.0
Tetrachloro-m-xylene	2.881	2.780	2.980	52.710	50.000	5.4

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Continuing Calib Date: 07/02/2025

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

06/17/2025

Continuing Calib Time: 18:55

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	0.00
delta-BHC	4.77	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	6.58	6.58	6.48	6.68	0.01
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	7.15	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	6.92	6.92	6.82	7.02	0.00
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.: Q2484

Continuing Calib Date: 07/02/2025

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

06/17/2025

Continuing Calib Time: 18:55

Initial Calibration Time(s): 15:52

16:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
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	4.03	4.03	3.93	4.13	0.00
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	5.38	5.38	5.28	5.48	0.00
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	5.13	5.13	5.03	5.23	0.00

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2484
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089312.D **Time Analyzed:** 18:55

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.706	6.605	6.805	53.150	50.000	6.3
4,4'-DDE	6.196	6.096	6.296	50.200	50.000	0.4
4,4'-DDT	7.022	6.921	7.121	45.570	50.000	-8.9
Aldrin	5.272	5.171	5.371	52.990	50.000	6.0
alpha-BHC	4.000	3.899	4.099	53.490	50.000	7.0
alpha-Chlordane	6.028	5.927	6.127	51.740	50.000	3.5
beta-BHC	4.516	4.415	4.615	51.020	50.000	2.0
Decachlorobiphenyl	9.073	8.972	9.172	47.920	50.000	-4.2
delta-BHC	4.765	4.664	4.864	55.290	50.000	10.6
Dieldrin	6.348	6.247	6.447	52.020	50.000	4.0
Endosulfan I	6.074	5.975	6.175	51.710	50.000	3.4
Endosulfan II	6.787	6.686	6.886	50.770	50.000	1.5
Endosulfan sulfate	7.150	7.049	7.249	49.290	50.000	-1.4
Endrin	6.575	6.475	6.675	49.120	50.000	-1.8
Endrin aldehyde	6.916	6.815	7.015	49.530	50.000	-0.9
Endrin ketone	7.631	7.530	7.730	50.220	50.000	0.4
gamma-BHC (Lindane)	4.331	4.230	4.430	53.060	50.000	6.1
gamma-Chlordane	5.946	5.846	6.046	52.510	50.000	5.0
Heptachlor	4.930	4.829	5.029	51.270	50.000	2.5
Heptachlor epoxide	5.691	5.591	5.791	51.100	50.000	2.2
Methoxychlor	7.494	7.393	7.593	51.790	50.000	3.6
Tetrachloro-m-xylene	3.550	3.450	3.650	53.070	50.000	6.1

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2484
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL02 **Date Analyzed:** 07/02/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089312.D **Time Analyzed:** 18:55

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.930	5.830	6.030	50.040	50.000	0.1
4,4'-DDE	5.376	5.275	5.475	50.100	50.000	0.2
4,4'-DDT	6.184	6.084	6.284	44.530	50.000	-10.9
Aldrin	4.369	4.269	4.469	51.390	50.000	2.8
alpha-BHC	3.393	3.293	3.493	52.390	50.000	4.8
alpha-Chlordane	5.191	5.091	5.291	50.520	50.000	1.0
beta-BHC	4.025	3.926	4.126	49.370	50.000	-1.3
Decachlorobiphenyl	8.073	7.972	8.172	47.250	50.000	-5.5
delta-BHC	4.262	4.162	4.362	50.800	50.000	1.6
Dieldrin	5.512	5.413	5.613	50.520	50.000	1.0
Endosulfan I	5.247	5.147	5.347	50.520	50.000	1.0
Endosulfan II	6.081	5.981	6.181	49.390	50.000	-1.2
Endosulfan sulfate	6.483	6.383	6.583	48.100	50.000	-3.8
Endrin	5.790	5.689	5.889	52.250	50.000	4.5
Endrin aldehyde	6.259	6.159	6.359	48.010	50.000	-4.0
Endrin ketone	6.992	6.892	7.092	48.820	50.000	-2.4
gamma-BHC (Lindane)	3.728	3.630	3.830	51.820	50.000	3.6
gamma-Chlordane	5.126	5.026	5.226	51.150	50.000	2.3
Heptachlor	4.083	3.983	4.183	49.370	50.000	-1.3
Heptachlor epoxide	4.873	4.773	4.973	53.130	50.000	6.3
Methoxychlor	6.754	6.655	6.855	51.520	50.000	3.0
Tetrachloro-m-xylene	2.882	2.780	2.980	54.310	50.000	8.6

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Continuing Calib Date: 07/02/2025

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

06/17/2025

Continuing Calib Time: 23:01

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	0.00
delta-BHC	4.77	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	6.08	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	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
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	6.92	6.92	6.82	7.02	0.00
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.: Q2484

Continuing Calib Date: 07/02/2025

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

06/17/2025

Continuing Calib Time: 23:01

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	4.03	4.03	3.93	4.13	0.00
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	0.01
Dieldrin	5.51	5.51	5.41	5.61	0.00
4,4'-DDE	5.38	5.38	5.28	5.48	0.00
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.:** Q2484
GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089324.D **Time Analyzed:** 23:01

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	6.706	6.605	6.805	53.900	50.000	7.8
4,4'-DDE	6.196	6.096	6.296	48.960	50.000	-2.1
4,4'-DDT	7.022	6.921	7.121	42.480	50.000	-15.0
Aldrin	5.272	5.171	5.371	55.580	50.000	11.2
alpha-BHC	4.000	3.899	4.099	56.340	50.000	12.7
alpha-Chlordane	6.027	5.927	6.127	51.820	50.000	3.6
beta-BHC	4.517	4.415	4.615	53.480	50.000	7.0
Decachlorobiphenyl	9.074	8.972	9.172	44.780	50.000	-10.4
delta-BHC	4.765	4.664	4.864	58.390	50.000	16.8
Dieldrin	6.348	6.247	6.447	51.290	50.000	2.6
Endosulfan I	6.075	5.975	6.175	52.410	50.000	4.8
Endosulfan II	6.787	6.686	6.886	49.360	50.000	-1.3
Endosulfan sulfate	7.150	7.049	7.249	46.940	50.000	-6.1
Endrin	6.574	6.475	6.675	48.210	50.000	-3.6
Endrin aldehyde	6.916	6.815	7.015	47.120	50.000	-5.8
Endrin ketone	7.631	7.530	7.730	46.780	50.000	-6.4
gamma-BHC (Lindane)	4.331	4.230	4.430	55.910	50.000	11.8
gamma-Chlordane	5.947	5.846	6.046	52.380	50.000	4.8
Heptachlor	4.930	4.829	5.029	53.610	50.000	7.2
Heptachlor epoxide	5.691	5.591	5.791	51.820	50.000	3.6
Methoxychlor	7.494	7.393	7.593	47.910	50.000	-4.2
Tetrachloro-m-xylene	3.551	3.450	3.650	55.620	50.000	11.2

CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance **Contract:** CAMP02
Lab Code: ACE **SDG NO.:** Q2484
GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 06/17/2025 06/17/2025

Client Sample No.: CCAL03 **Date Analyzed:** 07/02/2025
Lab Sample No.: PSTDCCC050 **Data File :** PD089324.D **Time Analyzed:** 23:01

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
4,4'-DDD	5.930	5.830	6.030	49.290	50.000	-1.4
4,4'-DDE	5.375	5.275	5.475	53.810	50.000	7.6
4,4'-DDT	6.183	6.084	6.284	44.980	50.000	-10.0
Aldrin	4.369	4.269	4.469	54.630	50.000	9.3
alpha-BHC	3.392	3.293	3.493	55.460	50.000	10.9
alpha-Chlordane	5.189	5.091	5.291	52.850	50.000	5.7
beta-BHC	4.026	3.926	4.126	50.580	50.000	1.2
Decachlorobiphenyl	8.072	7.972	8.172	42.630	50.000	-14.7
delta-BHC	4.262	4.162	4.362	54.260	50.000	8.5
Dieldrin	5.511	5.413	5.613	53.020	50.000	6.0
Endosulfan I	5.245	5.147	5.347	43.330	50.000	-13.3
Endosulfan II	6.081	5.981	6.181	49.970	50.000	-0.1
Endosulfan sulfate	6.482	6.383	6.583	48.420	50.000	-3.2
Endrin	5.790	5.689	5.889	59.220	50.000	18.4
Endrin aldehyde	6.259	6.159	6.359	49.300	50.000	-1.4
Endrin ketone	6.991	6.892	7.092	46.520	50.000	-7.0
gamma-BHC (Lindane)	3.729	3.630	3.830	55.030	50.000	10.1
gamma-Chlordane	5.124	5.026	5.226	52.950	50.000	5.9
Heptachlor	4.083	3.983	4.183	52.180	50.000	4.4
Heptachlor epoxide	4.871	4.773	4.973	54.720	50.000	9.4
Methoxychlor	6.754	6.655	6.855	49.600	50.000	-0.8
Tetrachloro-m-xylene	2.880	2.780	2.980	56.730	50.000	13.5

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

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.: Q2484

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

Client Sample No. (PEM): PEM - PD089302.D Date Analyzed: 07/02/2025

Lab Sample No.(PEM): PEM Time Analyzed: 09:41

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.073	8.970	9.170	19.340	20.000	-3.3
Tetrachloro-m-xylene	3.550	3.500	3.600	19.670	20.000	-1.7
alpha-BHC	3.999	3.950	4.050	9.190	10.000	-8.1
beta-BHC	4.516	4.470	4.570	10.220	10.000	2.2
gamma-BHC (Lindane)	4.330	4.280	4.380	9.660	10.000	-3.4
Endrin	6.573	6.500	6.640	45.330	50.000	-9.3
4,4'-DDT	7.021	6.950	7.090	80.330	100.000	-19.7
Methoxychlor	7.493	7.420	7.560	179.550	250.000	-28.2

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

Client Sample No. (PEM): PEM - PD089302.D Date Analyzed: 07/02/2025

Lab Sample No.(PEM): PEM Time Analyzed: 09:41

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	8.071	7.970	8.170	19.470	20.000	-2.7
Tetrachloro-m-xylene	2.879	2.830	2.930	20.510	20.000	2.6
alpha-BHC	3.391	3.340	3.440	10.690	10.000	6.9
beta-BHC	4.025	3.970	4.080	10.350	10.000	3.5
gamma-BHC (Lindane)	3.729	3.680	3.780	10.470	10.000	4.7
Endrin	5.788	5.720	5.860	46.570	50.000	-6.9
4,4'-DDT	6.182	6.110	6.250	78.790	100.000	-21.2
Methoxychlor	6.753	6.680	6.820	157.760	250.000	-36.9

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

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

Client Sample No. (PEM): PEM - PD089311.D Date Analyzed: 07/02/2025

Lab Sample No.(PEM): PEM Time Analyzed: 18:41

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	9.073	8.970	9.170	19.370	20.000	-3.2
Tetrachloro-m-xylene	3.551	3.500	3.600	20.050	20.000	0.3
alpha-BHC	4.000	3.950	4.050	9.340	10.000	-6.6
beta-BHC	4.516	4.470	4.570	10.270	10.000	2.7
gamma-BHC (Lindane)	4.331	4.280	4.380	9.800	10.000	-2.0
Endrin	6.574	6.500	6.640	47.170	50.000	-5.7
4,4'-DDT	7.022	6.950	7.090	84.360	100.000	-15.6
Methoxychlor	7.493	7.420	7.560	188.780	250.000	-24.5

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

Client Sample No. (PEM): PEM - PD089311.D Date Analyzed: 07/02/2025

Lab Sample No.(PEM): PEM Time Analyzed: 18:41

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Decachlorobiphenyl	8.071	7.970	8.170	19.620	20.000	-1.9
Tetrachloro-m-xylene	2.881	2.830	2.930	21.700	20.000	8.5
alpha-BHC	3.393	3.340	3.440	11.250	10.000	12.5
beta-BHC	4.026	3.980	4.080	10.560	10.000	5.6
gamma-BHC (Lindane)	3.728	3.680	3.780	10.960	10.000	9.6
Endrin	5.789	5.720	5.860	49.190	50.000	-1.6
4,4'-DDT	6.183	6.110	6.250	82.900	100.000	-17.1
Methoxychlor	6.753	6.680	6.820	167.690	250.000	-32.9

Analytical Sequence

Client: CDM Smith	SDG No.: Q2484
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 #
IBLK	IBLK	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
IBLK	IBLK	07/02/2025	09:28	PD089301.D	9.08	3.56
PEM	PEM	07/02/2025	09:41	PD089302.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/02/2025	09:55	PD089303.D	9.07	3.55
PB168693BL	PB168693BL	07/02/2025	16:29	PD089304.D	9.08	3.56
PB168693BS	PB168693BS	07/02/2025	17:20	PD089305.D	9.08	3.56
SOIL-PILEMS	Q2475-01MS	07/02/2025	17:47	PD089307.D	9.08	3.55
SOIL-PILEMSD	Q2475-01MSD	07/02/2025	18:00	PD089308.D	9.08	3.55
IBLK	IBLK	07/02/2025	18:28	PD089310.D	9.07	3.55
PEM	PEM	07/02/2025	18:41	PD089311.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/02/2025	18:55	PD089312.D	9.07	3.55
TP-58	Q2484-01	07/02/2025	20:17	PD089317.D	9.09	3.55
TP-57	Q2484-02	07/02/2025	20:31	PD089318.D	9.08	3.55
TP-64	Q2484-03	07/02/2025	20:44	PD089319.D	9.07	3.55
TP-107	Q2484-04	07/02/2025	20:58	PD089320.D	9.07	3.55
TP-106	Q2484-05	07/02/2025	21:12	PD089321.D	9.08	3.55
TP-104	Q2484-06	07/02/2025	21:26	PD089322.D	9.07	3.55
IBLK	IBLK	07/02/2025	21:39	PD089323.D	9.07	3.55
PSTDCCC050	PSTDCCC050	07/02/2025	23:01	PD089324.D	9.07	3.55

Analytical Sequence

Client: CDM Smith	SDG No.: Q2484	
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
IBLK	IBLK	07/02/2025	09:28	PD089301.D	8.07	2.88
PEM	PEM	07/02/2025	09:41	PD089302.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/02/2025	09:55	PD089303.D	8.07	2.88
PB168693BL	PB168693BL	07/02/2025	16:29	PD089304.D	8.07	2.88
PB168693BS	PB168693BS	07/02/2025	17:20	PD089305.D	8.07	2.88
SOIL-PILEMS	Q2475-01MS	07/02/2025	17:47	PD089307.D	8.07	2.88
SOIL-PILEMSD	Q2475-01MSD	07/02/2025	18:00	PD089308.D	8.07	2.88
IBLK	IBLK	07/02/2025	18:28	PD089310.D	8.07	2.88
PEM	PEM	07/02/2025	18:41	PD089311.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/02/2025	18:55	PD089312.D	8.07	2.88
TP-58	Q2484-01	07/02/2025	20:17	PD089317.D	8.07	2.88
TP-57	Q2484-02	07/02/2025	20:31	PD089318.D	8.07	2.88
TP-64	Q2484-03	07/02/2025	20:44	PD089319.D	8.07	2.88
TP-107	Q2484-04	07/02/2025	20:58	PD089320.D	8.07	2.88
TP-106	Q2484-05	07/02/2025	21:12	PD089321.D	8.07	2.88
TP-104	Q2484-06	07/02/2025	21:26	PD089322.D	8.07	2.88
IBLK	IBLK	07/02/2025	21:39	PD089323.D	8.07	2.88
PSTDCCC050	PSTDCCC050	07/02/2025	23:01	PD089324.D	8.07	2.88

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168693BS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: PB168693BS

Date(s) Analyzed: 07/02/2025 07/02/2025

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	17.8	12.5
	2	5.93	5.88	5.98	15.7	
4,4'-DDE	1	6.20	6.15	6.25	15.6	3.8
	2	5.38	5.33	5.43	16.2	
4,4'-DDT	1	7.03	6.98	7.08	14.6	0
	2	6.18	6.13	6.23	14.6	
alpha-BHC	1	4.01	3.96	4.06	16.2	2.4
	2	3.39	3.34	3.44	16.6	
Aldrin	1	5.28	5.23	5.33	16.4	1.2
	2	4.37	4.32	4.42	16.2	
alpha-Chlordane	1	6.03	5.98	6.08	16.2	1.9
	2	5.19	5.14	5.24	15.9	
Endosulfan II	1	6.79	6.74	6.84	15.8	1.3
	2	6.08	6.03	6.13	16.0	
Endosulfan sulfate	1	7.16	7.11	7.21	15.8	1.3
	2	6.48	6.43	6.53	15.6	
beta-BHC	1	4.52	4.47	4.57	15.8	0.6
	2	4.03	3.98	4.08	15.7	
delta-BHC	1	4.77	4.72	4.82	17.6	8.3
	2	4.26	4.21	4.31	16.2	
Endosulfan I	1	6.08	6.03	6.13	16.4	13
	2	5.25	5.20	5.30	14.4	
Dieldrin	1	6.35	6.30	6.40	16.4	1.8
	2	5.51	5.46	5.56	16.1	
Endrin aldehyde	1	6.92	6.87	6.97	16.2	0.6
	2	6.26	6.21	6.31	16.1	
Methoxychlor	1	7.50	7.45	7.55	14.9	0.7
	2	6.76	6.71	6.81	15.0	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168693BS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: PB168693BS

Date(s) Analyzed: 07/02/2025 07/02/2025

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	7.64	7.59	7.69	16.1	3.7
	2	6.99	6.94	7.04	16.7	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	16.3	1.9
	2	3.73	3.68	3.78	16.0	
Heptachlor	1	4.94	4.89	4.99	15.9	1.9
	2	4.08	4.03	4.13	15.6	
Heptachlor epoxide	1	5.70	5.65	5.75	16.0	2.5
	2	4.87	4.82	4.92	16.4	
gamma-Chlordane	1	5.95	5.90	6.00	16.2	1.9
	2	5.12	5.07	5.17	15.9	
Endrin	1	6.58	6.53	6.63	15.6	10.9
	2	5.79	5.74	5.84	17.4	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SOIL-PILEMS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: Q2475-01MS

Date(s) Analyzed: 07/02/2025 07/02/2025

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	20.8	24.9
	2	5.93	5.88	5.98	16.2	
4,4'-DDT	1	7.02	6.97	7.07	17.4	3.5
	2	6.18	6.13	6.23	16.8	
Aldrin	1	5.27	5.22	5.32	19.9	6.8
	2	4.37	4.32	4.42	18.6	
4,4'-DDE	1	6.20	6.15	6.25	15.3	23.1
	2	5.37	5.32	5.42	19.3	
Endosulfan II	1	6.79	6.74	6.84	18.0	3.3
	2	6.08	6.03	6.13	18.6	
Endrin aldehyde	1	6.92	6.87	6.97	18.4	1.1
	2	6.26	6.21	6.31	18.6	
Endosulfan sulfate	1	7.15	7.10	7.20	17.5	1.7
	2	6.48	6.43	6.53	17.2	
Methoxychlor	1	7.49	7.44	7.54	15.4	4
	2	6.75	6.70	6.80	14.8	
Endrin ketone	1	7.63	7.58	7.68	17.2	6.6
	2	6.99	6.94	7.04	16.1	
alpha-BHC	1	4.00	3.95	4.05	18.6	1.6
	2	3.39	3.34	3.44	18.9	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	20.2	6.6
	2	3.73	3.68	3.78	18.9	
Heptachlor	1	4.93	4.88	4.98	19.3	1.6
	2	4.08	4.03	4.13	19.0	
beta-BHC	1	4.52	4.47	4.57	15.0	31
	2	4.03	3.98	4.08	20.5	
delta-BHC	1	4.76	4.71	4.81	20.3	8.2
	2	4.26	4.21	4.31	18.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SOIL-PILEMS

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: Q2475-01MS

Date(s) Analyzed: 07/02/2025 07/02/2025

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		
Heptachlor epoxide	1	5.69	5.64	5.74	18.4	9.3
	2	4.87	4.82	4.92	20.2	
Endosulfan I	1	6.08	6.03	6.13	20.0	0
	2	5.25	5.20	5.30	20.0	
gamma-Chlordane	1	5.95	5.90	6.00	21.6	10.2
	2	5.12	5.07	5.17	19.5	
alpha-Chlordane	1	6.03	5.98	6.08	22.5	2.2
	2	5.19	5.14	5.24	22.0	
Dieldrin	1	6.35	6.30	6.40	18.6	12.1
	2	5.51	5.46	5.56	21.0	
Endrin	1	6.58	6.53	6.63	18.2	2.2
	2	5.79	5.74	5.84	18.6	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SOIL-PILEMSD

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: Q2475-01MSD

Date(s) Analyzed: 07/02/2025 07/02/2025

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	17.7	3.9
	2	6.08	6.03	6.13	18.4	
4,4'-DDD	1	6.70	6.65	6.75	21.4	27.1
	2	5.93	5.88	5.98	16.3	
4,4'-DDT	1	7.02	6.97	7.07	16.2	2.5
	2	6.18	6.13	6.23	15.8	
Endrin aldehyde	1	6.92	6.87	6.97	18.0	1.1
	2	6.26	6.21	6.31	17.8	
Endosulfan sulfate	1	7.15	7.10	7.20	17.3	2.3
	2	6.48	6.43	6.53	16.9	
Methoxychlor	1	7.49	7.44	7.54	15.9	10.6
	2	6.75	6.70	6.80	14.3	
Endrin ketone	1	7.63	7.58	7.68	17.3	8.4
	2	6.99	6.94	7.04	15.9	
alpha-BHC	1	4.00	3.95	4.05	18.7	0
	2	3.39	3.34	3.44	18.7	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	19.8	5.7
	2	3.73	3.68	3.78	18.7	
Heptachlor	1	4.93	4.88	4.98	18.4	1.1
	2	4.08	4.03	4.13	18.2	
Aldrin	1	5.27	5.22	5.32	19.3	4.2
	2	4.37	4.32	4.42	18.5	
beta-BHC	1	4.52	4.47	4.57	15.3	28.6
	2	4.03	3.98	4.08	20.4	
delta-BHC	1	4.76	4.71	4.81	20.0	7.8
	2	4.26	4.21	4.31	18.5	
Heptachlor epoxide	1	5.69	5.64	5.74	18.2	10.9
	2	4.87	4.82	4.92	20.3	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SOIL-PILEMSD

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: Q2475-01MSD

Date(s) Analyzed: 07/02/2025 07/02/2025

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	20.1	0.5
	2	5.25	5.20	5.30	20.2	
gamma-Chlordane	1	5.95	5.90	6.00	19.3	3.7
	2	5.12	5.07	5.17	18.6	
alpha-Chlordane	1	6.03	5.98	6.08	22.2	1.4
	2	5.19	5.14	5.24	21.9	
4,4'-DDE	1	6.20	6.15	6.25	15.0	24
	2	5.38	5.33	5.43	19.1	
Dieldrin	1	6.35	6.30	6.40	18.4	12.7
	2	5.51	5.46	5.56	20.9	
Endrin	1	6.57	6.52	6.62	17.8	4.9
	2	5.79	5.74	5.84	18.7	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-58

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: Q2484-01

Date(s) Analyzed: 07/02/2025 07/02/2025

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		
Dieldrin	1	6.35	6.30	6.40	1.10	146.3
	2	5.51	5.46	5.56	7.10	
Endrin	1	6.58	6.53	6.63	1.30	26.7
	2	5.78	5.73	5.83	1.70	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-64

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2484

Lab Sample ID: Q2484-03

Date(s) Analyzed: 07/02/2025 07/02/2025

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		
gamma-Chlordane	1	5.94	5.89	5.99	0.33	36.7
	2	5.13	5.08	5.18	0.23	
alpha-Chlordane	1	6.03	5.98	6.08	0.40	42.3
	2	5.19	5.14	5.24	0.26	