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

Hit Summary Sheet
SW-846

SDG No.: P4663 **Order ID:** P4663

Client: Union Paving & Construction Company **Project ID:** Rt. 10 Whippany

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**TENNANT-PAD-2-3-STOCKPIL**							
P4663-02	TENNANT-PAD-2-3-	SOIL	4,4-DDT	0.21	J	0.19	1.90	ug/kg
P4663-02	TENNANT-PAD-2-3-	SOIL	alpha-Chlordane	0.48	JP	0.19	1.90	ug/kg
			Total Concentration:	**0.690**				
Client ID :	**RES-BUILDING-PAD-NO-11**							
P4663-04	RES-BUILDING-PAD	SOIL	4,4-DDE	0.22	J	0.14	1.80	ug/kg
			Total Concentration:	**0.220**				

SAMPLE DATA

Raw Data: **PL092806.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	90.9 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
PL092806.D	1	11/01/24 09:12	11/01/24 15:56	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	0.54	U	0.54	1.90	ug/kg
319-86-8	delta-BHC	0.52	U	0.52	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	0.19	U	0.19	1.90	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.90	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.90	ug/kg
72-20-8	Endrin	0.18	U	0.18	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.21	J	0.19	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.48	JP	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.3	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.9		30 (10) - 150 (148)	69%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.8		30 (10) - 150 (159)	74%	SPK: 20

Raw Data: **PL092806.D**

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	90.9 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
PL092806.D	1	11/01/24 09:12	11/01/24 15:56	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL092807.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.7 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092807.D	1	11/01/24 09:12	11/01/24 16:10	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.80	ug/kg
319-85-7	beta-BHC	0.53	U	0.53	1.80	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	1.80	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.80	ug/kg
76-44-8	Heptachlor	0.18	U	0.18	1.80	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.80	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.80	ug/kg
959-98-8	Endosulfan I	0.18	U	0.18	1.80	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.80	ug/kg
72-55-9	4,4-DDE	0.22	J	0.14	1.80	ug/kg
72-20-8	Endrin	0.17	U	0.17	1.80	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.80	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.80	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.80	ug/kg
50-29-3	4,4-DDT	0.18	U	0.18	1.80	ug/kg
72-43-5	Methoxychlor	0.41	U	0.41	1.80	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.80	ug/kg
7421-93-4	Endrin aldehyde	0.42	U	0.42	1.80	ug/kg
5103-71-9	alpha-Chlordane	0.18	U	0.18	1.80	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.80	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	35.9	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.8		30 (10) - 150 (148)	64%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.3		30 (10) - 150 (159)	71%	SPK: 20

Raw Data: **PL092807.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.7 Decanted:
Sample Wt/Vol:	30.08 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092807.D	1	11/01/24 09:12	11/01/24 16:10	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL092808.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.2 Decanted:
Sample Wt/Vol:	30.1 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
PL092808.D	1	11/01/24 09:12	11/01/24 16:24	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	0.54	U	0.54	1.90	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	0.19	U	0.19	1.90	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.90	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.90	ug/kg
72-20-8	Endrin	0.17	U	0.17	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.19	U	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.8		30 (10) - 150 (148)	74%	SPK: 20
877-09-8	Tetrachloro-m-xylene	14.9		30 (10) - 150 (159)	74%	SPK: 20

Raw Data: **PL092808.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.2 Decanted:
Sample Wt/Vol:	30.1 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
PL092808.D	1	11/01/24 09:12	11/01/24 16:24	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL092809.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092809.D	1	11/01/24 09:12	11/01/24 16:38	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.20	U	0.20	1.90	ug/kg
319-85-7	beta-BHC	0.54	U	0.54	1.90	ug/kg
319-86-8	delta-BHC	0.51	U	0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	0.21	U	0.21	1.90	ug/kg
76-44-8	Heptachlor	0.19	U	0.19	1.90	ug/kg
309-00-2	Aldrin	0.15	U	0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	0.25	U	0.25	1.90	ug/kg
959-98-8	Endosulfan I	0.19	U	0.19	1.90	ug/kg
60-57-1	Dieldrin	0.16	U	0.16	1.90	ug/kg
72-55-9	4,4-DDE	0.14	U	0.14	1.90	ug/kg
72-20-8	Endrin	0.17	U	0.17	1.90	ug/kg
33213-65-9	Endosulfan II	0.33	U	0.33	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	0.14	U	0.14	1.90	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	1.90	ug/kg
72-43-5	Methoxychlor	0.42	U	0.42	1.90	ug/kg
53494-70-5	Endrin ketone	0.24	U	0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	0.43	U	0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	0.19	U	0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	0.21	U	0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.0		30 (10) - 150 (148)	80%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.0		30 (10) - 150 (159)	90%	SPK: 20

Raw Data: **PL092809.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092809.D	1	11/01/24 09:12	11/01/24 16:38	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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

Surrogate Summary

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092652.D	PIBLK-PL092652.D	Decachlorobiphenyl	1	20	22.7	114		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.6	108		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.7	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
I.BLK-PL092799.D	PIBLK-PL092799.D	Decachlorobiphenyl	1	20	21.1	105		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.6	103		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.8	109		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.7	98		30 (77)	150 (126)
PB164592BL	PB164592BL	Decachlorobiphenyl	1	20	21.2	106		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	20.0	100		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	22.0	110		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	19.1	95		30 (10)	150 (159)
PB164592BS	PB164592BS	Decachlorobiphenyl	1	20	20.8	104		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	19.5	98		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	21.2	106		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	18.3	91		30 (10)	150 (159)
P4663-02	TENNANT-PAD-2-3-STOCKPILE	Decachlorobiphenyl	1	20	13.9	69		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	14.8	74		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.7	58		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	14.5	72		30 (10)	150 (159)
P4663-04	RES-BUILDING-PAD-NO-11	Decachlorobiphenyl	1	20	12.8	64		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	14.3	71		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.7	58		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	13.2	66		30 (10)	150 (159)
P4663-06	RES-BUILDING-PAD-NO-3	Decachlorobiphenyl	1	20	14.8	74		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	14.9	74		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.8	59		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	14.6	73		30 (10)	150 (159)
P4663-08	RES-BUILDING-PAD-NO-2	Decachlorobiphenyl	1	20	16.0	80		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	18.0	90		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	14.4	72		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	17.2	86		30 (10)	150 (159)
P4663-08MS	RES-BUILDING-PAD-NO-2MS	Decachlorobiphenyl	1	20	14.1	71		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	17.2	86		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	11.9	59		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	13.4	67		30 (10)	150 (159)
P4663-08MSD	RES-BUILDING-PAD-NO-2MSD	Decachlorobiphenyl	1	20	13.5	67		30 (10)	150 (148)
		Tetrachloro-m-xylene	1	20	17.4	87		30 (10)	150 (159)
		Decachlorobiphenyl	2	20	12.1	60		30 (10)	150 (148)
		Tetrachloro-m-xylene	2	20	13.4	67		30 (10)	150 (159)
I.BLK-PL092812.D	PIBLK-PL092812.D	Decachlorobiphenyl	1	20	20.9	105		30 (43)	150 (140)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL092812.D	PIBLK-PL092812.D	Tetrachloro-m-xylene	1	20	20.4	102		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.7	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	19.9	99		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B **DataFile :** PL092810.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**RES-BUILDING-PAD-NO-2MS**											
P4663-08MS	alpha-BHC	18.24	0	15.5	ug/kg	85				30 (60)	150 (144)	
	beta-BHC	18.24	0	17.7	ug/kg	97				30 (54)	150 (143)	
	delta-BHC	18.24	0	4.60	ug/kg	25	*			30 (47)	150 (144)	
	gamma-BHC (Lindane)	18.24	0	15.7	ug/kg	86				30 (61)	150 (140)	
	Heptachlor	18.24	0	17.9	ug/kg	98				30 (63)	150 (135)	
	Aldrin	18.24	0	17.2	ug/kg	94				30 (49)	150 (139)	
	Heptachlor epoxide	18.24	0	17.0	ug/kg	93				30 (32)	150 (180)	
	Endosulfan I	18.24	0	17.5	ug/kg	96				30 (56)	150 (142)	
	Dieldrin	18.24	0	17.5	ug/kg	96				30 (47)	150 (161)	
	4,4'-DDE	18.24	0	18.1	ug/kg	99				30 (55)	150 (136)	
	Endrin	18.24	0	17.8	ug/kg	98				30 (57)	150 (139)	
	Endosulfan II	18.24	0	16.8	ug/kg	92				30 (40)	150 (163)	
	4,4'-DDD	18.24	0	16.4	ug/kg	90				30 (37)	150 (192)	
	Endosulfan sulfate	18.24	0	13.4	ug/kg	73				30 (62)	150 (139)	
	4,4'-DDT	18.24	0	16.7	ug/kg	92				30 (51)	150 (146)	
	Methoxychlor	18.24	0	16.6	ug/kg	91				30 (54)	150 (136)	
	Endrin ketone	18.24	0	15.8	ug/kg	87				30 (60)	150 (129)	
	Endrin aldehyde	18.24	0	15.9	ug/kg	87				30 (59)	150 (132)	
	alpha-Chlordane	18.24	0	17.6	ug/kg	96				30 (30)	150 (192)	
	gamma-Chlordane	18.24	0	17.8	ug/kg	98				30 (44)	150 (175)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B **DataFile :** PL092811.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**RES-BUILDING-PAD-NO-2MSD**											
P4663-08MSD	alpha-BHC	18.23	0	15.5	ug/kg	85		0		30 (60)	150 (144)	30 (20)
	beta-BHC	18.23	0	17.8	ug/kg	98		1		30 (54)	150 (143)	30 (20)
	delta-BHC	18.23	0	4.60	ug/kg	25	*	0		30 (47)	150 (144)	30 (20)
	gamma-BHC (Lindane)	18.23	0	15.8	ug/kg	87		1		30 (61)	150 (140)	30 (20)
	Heptachlor	18.23	0	17.9	ug/kg	98		0		30 (63)	150 (135)	30 (20)
	Aldrin	18.23	0	17.0	ug/kg	93		1		30 (49)	150 (139)	30 (20)
	Heptachlor epoxide	18.23	0	17.4	ug/kg	95		2		30 (32)	150 (180)	30 (20)
	Endosulfan I	18.23	0	17.5	ug/kg	96		0		30 (56)	150 (142)	30 (20)
	Dieldrin	18.23	0	17.5	ug/kg	96		0		30 (47)	150 (161)	30 (20)
	4,4'-DDE	18.23	0	18.0	ug/kg	99		0		30 (55)	150 (136)	30 (20)
	Endrin	18.23	0	18.3	ug/kg	100		2		30 (57)	150 (139)	30 (20)
	Endosulfan II	18.23	0	17.3	ug/kg	95		3		30 (40)	150 (163)	30 (20)
	4,4'-DDD	18.23	0	17.4	ug/kg	95		5		30 (37)	150 (192)	30 (20)
	Endosulfan sulfate	18.23	0	13.7	ug/kg	75		3		30 (62)	150 (139)	30 (20)
	4,4'-DDT	18.23	0	16.8	ug/kg	92		0		30 (51)	150 (146)	30 (20)
	Methoxychlor	18.23	0	17.2	ug/kg	94		3		30 (54)	150 (136)	30 (20)
	Endrin ketone	18.23	0	15.9	ug/kg	87		0		30 (60)	150 (129)	30 (20)
	Endrin aldehyde	18.23	0	15.9	ug/kg	87		0		30 (59)	150 (132)	30 (20)
	alpha-Chlordane	18.23	0	17.7	ug/kg	97		1		30 (30)	150 (192)	30 (20)
	gamma-Chlordane	18.23	0	17.9	ug/kg	98		0		30 (44)	150 (175)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8081B **Datafile :** PL092802.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164592BS	alpha-BHC	16.65	17.7	ug/kg	106				40 (84)	140 (123)	
	beta-BHC	16.65	18.0	ug/kg	108				40 (82)	140 (123)	
	delta-BHC	16.65	15.6	ug/kg	94				40 (83)	140 (126)	
	gamma-BHC (Lindane)	16.65	17.6	ug/kg	106				40 (83)	140 (125)	
	Heptachlor	16.65	18.7	ug/kg	112				40 (83)	140 (122)	
	Aldrin	16.65	17.8	ug/kg	107				40 (82)	140 (124)	
	Heptachlor epoxide	16.65	18.4	ug/kg	111				40 (83)	140 (120)	
	Endosulfan I	16.65	18.7	ug/kg	112				40 (81)	140 (124)	
	Dieldrin	16.65	18.9	ug/kg	114				40 (85)	140 (121)	
	4,4'-DDE	16.65	18.8	ug/kg	113				40 (81)	140 (123)	
	Endrin	16.65	19.8	ug/kg	119				40 (76)	140 (130)	
	Endosulfan II	16.65	19.2	ug/kg	115				40 (80)	140 (125)	
	4,4'-DDD	16.65	19.0	ug/kg	114				40 (80)	140 (131)	
	Endosulfan sulfate	16.65	18.6	ug/kg	112				40 (81)	140 (122)	
	4,4'-DDT	16.65	19.3	ug/kg	116				40 (70)	140 (129)	
	Methoxychlor	16.65	18.7	ug/kg	112				40 (60)	140 (119)	
	Endrin ketone	16.65	18.7	ug/kg	112				40 (77)	140 (132)	
	Endrin aldehyde	16.65	18.1	ug/kg	109				40 (79)	140 (124)	
	alpha-Chlordane	16.65	18.7	ug/kg	112				40 (84)	140 (120)	
	gamma-Chlordane	16.65	18.9	ug/kg	114				40 (83)	140 (122)	

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164592BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab Sample ID: PB164592BL Lab File ID: PL092801.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 11/01/2024

Date Analyzed (1): 11/01/2024 Date Analyzed (2): 11/01/2024

Time Analyzed (1): 14:47 Time Analyzed (2): 14:47

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

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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
PB164592BS	PB164592BS	PL092802.D	11/01/2024	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-02	PL092806.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-04	PL092807.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-06	PL092808.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-2	P4663-08	PL092809.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-2MS	P4663-08MS	PL092810.D	11/01/2024	11/01/2024
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	PL092811.D	11/01/2024	11/01/2024

COMMENTS:

QC SAMPLE DATA

Raw Data: **PL092801.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BL	SDG No.:	P4663
Lab Sample ID:	PB164592BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 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
PL092801.D	1	11/01/24 09:12	11/01/24 14:47	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	0.18	U	0.18	1.70	ug/kg
319-85-7	beta-BHC	0.49	U	0.49	1.70	ug/kg
319-86-8	delta-BHC	0.47	U	0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	0.19	U	0.19	1.70	ug/kg
76-44-8	Heptachlor	0.17	U	0.17	1.70	ug/kg
309-00-2	Aldrin	0.14	U	0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	0.23	U	0.23	1.70	ug/kg
959-98-8	Endosulfan I	0.17	U	0.17	1.70	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	0.13	U	0.13	1.70	ug/kg
72-20-8	Endrin	0.16	U	0.16	1.70	ug/kg
33213-65-9	Endosulfan II	0.30	U	0.30	1.70	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	0.13	U	0.13	1.70	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	1.70	ug/kg
72-43-5	Methoxychlor	0.38	U	0.38	1.70	ug/kg
53494-70-5	Endrin ketone	0.22	U	0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	0.39	U	0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	0.17	U	0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	0.19	U	0.19	1.70	ug/kg
8001-35-2	Toxaphene	5.20	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.0		30 (10) - 150 (148)	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		30 (10) - 150 (159)	100%	SPK: 20

Raw Data: **PL092801.D**

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BL	SDG No.:	P4663
Lab Sample ID:	PB164592BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 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
PL092801.D	1	11/01/24 09:12	11/01/24 14:47	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/28/24
Project:	Rt. 10 Whippany	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.7		30 (43) - 150 (140)	114%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.6		30 (77) - 150 (126)	108%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/28/24
Project:	Rt. 10 Whippany	Date Received:	10/28/24
Client Sample ID:	PIBLK-PL092652.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092652.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092652.D	1		10/28/24	PL102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092799.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092799.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092799.D	1		11/01/24	pl110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.8		30 (43) - 150 (140)	109%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		30 (77) - 150 (126)	103%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092799.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092799.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092799.D	1		11/01/24	pl110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092812.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092812.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092812.D	1		11/01/24	pl110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.9		30 (43) - 150 (140)	105%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (126)	102%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/01/24
Project:	Rt. 10 Whippany	Date Received:	11/01/24
Client Sample ID:	PIBLK-PL092812.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PL092812.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092812.D	1		11/01/24	pl110124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL092802.D**

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BS	SDG No.:	P4663
Lab Sample ID:	PB164592BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092802.D	1	11/01/24 09:12	11/01/24 15:01	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	17.7		0.18	1.70	ug/kg
319-85-7	beta-BHC	18.0		0.49	1.70	ug/kg
319-86-8	delta-BHC	15.6		0.47	1.70	ug/kg
58-89-9	gamma-BHC (Lindane)	17.6		0.19	1.70	ug/kg
76-44-8	Heptachlor	18.7		0.17	1.70	ug/kg
309-00-2	Aldrin	17.8		0.14	1.70	ug/kg
1024-57-3	Heptachlor epoxide	18.4		0.23	1.70	ug/kg
959-98-8	Endosulfan I	18.7		0.17	1.70	ug/kg
60-57-1	Dieldrin	18.9		0.15	1.70	ug/kg
72-55-9	4,4-DDE	18.8		0.13	1.70	ug/kg
72-20-8	Endrin	19.8		0.16	1.70	ug/kg
33213-65-9	Endosulfan II	19.2		0.30	1.70	ug/kg
72-54-8	4,4-DDD	19.0		0.19	1.70	ug/kg
1031-07-8	Endosulfan Sulfate	18.6		0.13	1.70	ug/kg
50-29-3	4,4-DDT	19.3		0.17	1.70	ug/kg
72-43-5	Methoxychlor	18.7		0.38	1.70	ug/kg
53494-70-5	Endrin ketone	18.7		0.22	1.70	ug/kg
7421-93-4	Endrin aldehyde	18.1		0.39	1.70	ug/kg
5103-71-9	alpha-Chlordane	18.7		0.17	1.70	ug/kg
5103-74-2	gamma-Chlordane	18.9		0.19	1.70	ug/kg
8001-35-2	Toxaphene	5.20	U	5.20	33.0	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		30 (10) - 150 (148)	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.5		30 (10) - 150 (159)	98%	SPK: 20

Raw Data: **PL092802.D**

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164592BS	SDG No.:	P4663
Lab Sample ID:	PB164592BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL092802.D	1	11/01/24 09:12	11/01/24 15:01	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL092810.D**

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092810.D	1	11/01/24 09:12	11/01/24 16:52	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	15.5		0.20	1.90	ug/kg
319-85-7	beta-BHC	17.7		0.54	1.90	ug/kg
319-86-8	delta-BHC	4.60		0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	15.7		0.21	1.90	ug/kg
76-44-8	Heptachlor	17.9		0.19	1.90	ug/kg
309-00-2	Aldrin	17.2		0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	17.0		0.25	1.90	ug/kg
959-98-8	Endosulfan I	17.5		0.19	1.90	ug/kg
60-57-1	Dieldrin	17.5		0.16	1.90	ug/kg
72-55-9	4,4-DDE	18.1		0.14	1.90	ug/kg
72-20-8	Endrin	17.8		0.18	1.90	ug/kg
33213-65-9	Endosulfan II	16.8		0.33	1.90	ug/kg
72-54-8	4,4-DDD	16.4		0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	13.4		0.14	1.90	ug/kg
50-29-3	4,4-DDT	16.7		0.19	1.90	ug/kg
72-43-5	Methoxychlor	16.6		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	15.8		0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	15.9		0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	17.6		0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	17.8		0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	14.1		30 (10) - 150 (148)	71%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.2		30 (10) - 150 (159)	86%	SPK: 20

Raw Data: **PL092810.D**

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092810.D	1	11/01/24 09:12	11/01/24 16:52	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Raw Data: **PL092811.D**

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092811.D	1	11/01/24 09:12	11/01/24 17:06	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
319-84-6	alpha-BHC	15.5		0.20	1.90	ug/kg
319-85-7	beta-BHC	17.8		0.54	1.90	ug/kg
319-86-8	delta-BHC	4.60		0.51	1.90	ug/kg
58-89-9	gamma-BHC (Lindane)	15.8		0.21	1.90	ug/kg
76-44-8	Heptachlor	17.9		0.19	1.90	ug/kg
309-00-2	Aldrin	17.0		0.15	1.90	ug/kg
1024-57-3	Heptachlor epoxide	17.4		0.25	1.90	ug/kg
959-98-8	Endosulfan I	17.5		0.19	1.90	ug/kg
60-57-1	Dieldrin	17.5		0.16	1.90	ug/kg
72-55-9	4,4-DDE	18.0		0.14	1.90	ug/kg
72-20-8	Endrin	18.3		0.18	1.90	ug/kg
33213-65-9	Endosulfan II	17.3		0.33	1.90	ug/kg
72-54-8	4,4-DDD	17.4		0.21	1.90	ug/kg
1031-07-8	Endosulfan Sulfate	13.7		0.14	1.90	ug/kg
50-29-3	4,4-DDT	16.8		0.19	1.90	ug/kg
72-43-5	Methoxychlor	17.2		0.42	1.90	ug/kg
53494-70-5	Endrin ketone	15.9		0.24	1.90	ug/kg
7421-93-4	Endrin aldehyde	15.9		0.43	1.90	ug/kg
5103-71-9	alpha-Chlordane	17.7		0.19	1.90	ug/kg
5103-74-2	gamma-Chlordane	17.9		0.21	1.90	ug/kg
8001-35-2	Toxaphene	5.70	U	5.70	36.1	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	13.5		30 (10) - 150 (148)	67%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.4		30 (10) - 150 (159)	87%	SPK: 20

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	91.3 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
PL092811.D	1	11/01/24 09:12	11/01/24 17:06	PB164592

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

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

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.26	5.26	5.26	5.26	5.26	5.26	5.16	5.36
alpha-BHC	4.00	4.00	4.00	4.00	4.00	4.00	3.90	4.10
alpha-Chlordane	6.02	6.02	6.02	6.02	6.02	6.02	5.92	6.12
beta-BHC	4.53	4.53	4.53	4.53	4.53	4.53	4.43	4.63
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
delta-BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.35	6.35	6.35	6.35	6.34	6.34	6.24	6.44
Endosulfan I	6.07	6.07	6.07	6.07	6.07	6.07	5.97	6.17
Endosulfan II	6.79	6.79	6.79	6.79	6.79	6.79	6.69	6.89
Endosulfan sulfate	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26
Endrin	6.58	6.58	6.57	6.57	6.57	6.57	6.47	6.67
Endrin aldehyde	6.92	6.92	6.92	6.92	6.92	6.92	6.82	7.02
Endrin ketone	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.33	4.33	4.33	4.33	4.33	4.33	4.23	4.43
gamma-Chlordane	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Heptachlor	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Heptachlor epoxide	5.69	5.69	5.68	5.69	5.68	5.68	5.58	5.78
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Calibration Date(s):** 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

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

LAB FILE ID: RT 100 = PL092655.D RT 075 = PL092656.D

RT 050 = PL092657.D RT 025 = PL092658.D RT 005 = PL092659.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.79	5.79	5.79	5.79	5.79	5.79	5.69	5.89
4,4'-DDE	5.24	5.24	5.24	5.24	5.24	5.24	5.14	5.34
4,4'-DDT	6.04	6.04	6.04	6.04	6.04	6.04	5.94	6.14
Aldrin	4.23	4.23	4.23	4.23	4.23	4.23	4.13	4.33
alpha-BHC	3.28	3.28	3.28	3.28	3.28	3.28	3.18	3.38
alpha-Chlordane	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
beta-BHC	3.91	3.91	3.91	3.91	3.91	3.91	3.81	4.01
Decachlorobiphenyl	7.92	7.92	7.92	7.92	7.92	7.92	7.82	8.02
delta-BHC	4.14	4.14	4.14	4.14	4.14	4.14	4.04	4.24
Dieldrin	5.37	5.37	5.37	5.37	5.37	5.37	5.27	5.47
Endosulfan I	5.10	5.10	5.10	5.10	5.10	5.10	5.00	5.20
Endosulfan II	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
Endosulfan sulfate	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Endrin	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Endrin aldehyde	6.12	6.12	6.12	6.12	6.12	6.12	6.02	6.22
Endrin ketone	6.84	6.84	6.84	6.84	6.84	6.84	6.74	6.94
gamma-BHC (Lindane)	3.61	3.61	3.61	3.61	3.61	3.61	3.51	3.71
gamma-Chlordane	4.98	4.98	4.98	4.98	4.98	4.98	4.88	5.08
Heptachlor	3.95	3.95	3.95	3.95	3.95	3.95	3.85	4.05
Heptachlor epoxide	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Methoxychlor	6.61	6.62	6.62	6.62	6.61	6.61	6.51	6.71
Tetrachloro-m-xylene	2.78	2.78	2.78	2.78	2.78	2.78	2.68	2.88

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

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

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1810270000	1801980000	1817980000	1967770000	2199620000	1919520000	9
4,4'-DDE	2254070000	2226390000	2230050000	2402470000	2732960000	2369190000	9
4,4'-DDT	1948940000	1933390000	1940720000	2113460000	2412250000	2069750000	10
Aldrin	2847480000	2802990000	2807290000	3047230000	3502400000	3001480000	10
alpha-BHC	3356530000	3271880000	3230400000	3397090000	3701950000	3391570000	5
alpha-Chlordane	2486640000	2469090000	2489960000	2701720000	3093310000	2648140000	10
beta-BHC	1343260000	1339050000	1368530000	1491800000	1684660000	1445460000	10
Decachlorobiphenyl	1738840000	1756630000	1819720000	1998760000	2308800000	1924550000	12
delta-BHC	3067660000	2980040000	2949010000	3119670000	3533000000	3129870000	8
Dieldrin	2486930000	2456960000	2476030000	2679410000	3078050000	2635480000	10
Endosulfan I	2320690000	2313950000	2348370000	2546170000	2977620000	2501360000	11
Endosulfan II	2159880000	2160930000	2205230000	2449960000	2943170000	2383830000	14
Endosulfan sulfate	1974140000	1979440000	2024740000	2239840000	2633550000	2170340000	13
Endrin	2111540000	2103000000	2121260000	2324460000	2723040000	2276660000	12
Endrin aldehyde	1712300000	1718280000	1758160000	1955910000	2245210000	1877970000	12
Endrin ketone	2253830000	2246660000	2273910000	2471090000	2868570000	2422810000	11
gamma-BHC (Lindane)	3198960000	3133030000	3104430000	3278360000	3583040000	3259560000	6
gamma-Chlordane	2496700000	2477960000	2491940000	2703470000	3133120000	2660640000	11
Heptachlor	2817300000	2795570000	2829220000	3064000000	3509480000	3003110000	10
Heptachlor epoxide	2536240000	2521530000	2566410000	2821600000	3361270000	2761410000	13
Methoxychlor	1040530000	1050870000	1078280000	1189160000	1341160000	1140000000	11
Tetrachloro-m-xylene	2319350000	2304070000	2328420000	2512350000	2786990000	2450240000	8

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L

Calibration Date(s): 10/28/2024 10/28/2024

Calibration Times: 14:43 15:36

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

LAB FILE ID: **CF 100 =** PL092655.D **CF 075 =** PL092656.D

CF 050 = PL092657.D **CF 025 =** PL092658.D **CF 005 =** PL092659.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2614880000	2506250000	2443430000	2489210000	2396540000	2490060000	3
4,4'-DDE	3334990000	3225880000	3154950000	3209960000	3182260000	3221610000	2
4,4'-DDT	2797500000	2713050000	2637310000	2653690000	2609750000	2682260000	3
Aldrin	3840860000	3705070000	3619180000	3619340000	3516600000	3660210000	3
alpha-BHC	4282500000	4089170000	3973860000	3934480000	3670850000	3990170000	6
alpha-Chlordane	3409310000	3303380000	3254510000	3329310000	3333630000	3326030000	2
beta-BHC	1625150000	1594840000	1591160000	1661990000	1758110000	1646250000	4
Decachlorobiphenyl	2606810000	2575500000	2605540000	2793460000	3064890000	2729240000	8
delta-BHC	4088000000	3924730000	3802680000	3782230000	3618150000	3843150000	5
Dieldrin	3483370000	3364390000	3290100000	3303460000	3260200000	3340300000	3
Endosulfan I	3111480000	3032780000	2993580000	3072340000	3055530000	3053140000	1
Endosulfan II	2881520000	2813750000	2779930000	2861240000	2829950000	2833280000	1
Endosulfan sulfate	2707530000	2646200000	2623690000	2712350000	2794620000	2696880000	2
Endrin	2969490000	2878380000	2828080000	2876210000	2912860000	2893010000	2
Endrin aldehyde	2273700000	2244250000	2230130000	2333460000	2454860000	2307280000	4
Endrin ketone	3089790000	3023040000	3013060000	3097240000	3120850000	3068800000	2
gamma-BHC (Lindane)	4083950000	3934430000	3833920000	3828430000	3616530000	3859450000	4
gamma-Chlordane	3470230000	3355710000	3294030000	3342020000	3346470000	3361690000	2
Heptachlor	3876200000	3766580000	3709120000	3779090000	3738650000	3773930000	2
Heptachlor epoxide	3405420000	3318630000	3272090000	3352830000	3358060000	3341410000	1
Methoxychlor	1400820000	1385450000	1393920000	1470360000	1489590000	1428030000	3
Tetrachloro-m-xylene	2724750000	2661560000	2643180000	2728430000	2847900000	2721160000	3

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.24	6.14	6.34	23962400
		2	6.44	6.34	6.54	13823600
		3	7.06	6.96	7.16	79159800
		4	7.15	7.05	7.25	59803700
		5	7.93	7.83	8.03	45329200

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Instrument ID: ECD_L **Date(s) Analyzed:** 10/28/2024 10/28/2024

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.01	4.91	5.11	19952700
		2	5.33	5.23	5.43	19749600
		3	6.61	6.51	6.71	70222500
		4	6.73	6.63	6.83	98337700
		5	7.05	6.95	7.15	65479700

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 14:29 **Initial Calibration Time(s):** 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.78	4.77	4.67	4.87	-0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	-0.01
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 14:29 **Initial Calibration Time(s):** 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.24	5.14	5.34	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00
Endrin ketone	6.85	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092800.D **Time Analyzed:** 14:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.713	6.610	6.810	51.260	50.000	2.5
4,4'-DDE	6.195	6.093	6.293	50.900	50.000	1.8
4,4'-DDT	7.027	6.923	7.123	49.960	50.000	-0.1
Aldrin	5.260	5.158	5.358	51.100	50.000	2.2
alpha-BHC	3.998	3.896	4.096	52.100	50.000	4.2
alpha-Chlordane	6.022	5.919	6.119	50.800	50.000	1.6
beta-BHC	4.528	4.425	4.625	51.310	50.000	2.6
Decachlorobiphenyl	9.059	8.954	9.154	49.300	50.000	-1.4
delta-BHC	4.775	4.672	4.872	52.010	50.000	4.0
Dieldrin	6.347	6.245	6.445	50.860	50.000	1.7
Endosulfan I	6.072	5.970	6.170	50.520	50.000	1.0
Endosulfan II	6.797	6.694	6.894	49.360	50.000	-1.3
Endosulfan sulfate	7.162	7.058	7.258	49.620	50.000	-0.8
Endrin	6.577	6.474	6.674	50.060	50.000	0.1
Endrin aldehyde	6.927	6.824	7.024	49.870	50.000	-0.3
Endrin ketone	7.646	7.543	7.743	49.670	50.000	-0.7
gamma-BHC (Lindane)	4.330	4.228	4.428	52.020	50.000	4.0
gamma-Chlordane	5.943	5.841	6.041	50.730	50.000	1.5
Heptachlor	4.919	4.817	5.017	51.570	50.000	3.1
Heptachlor epoxide	5.686	5.584	5.784	50.230	50.000	0.5
Methoxychlor	7.503	7.399	7.599	49.760	50.000	-0.5
Tetrachloro-m-xylene	3.542	3.440	3.640	51.490	50.000	3.0

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL01 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092800.D **Time Analyzed:** 14:29

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.791	5.689	5.889	55.140	50.000	10.3
4,4'-DDE	5.235	5.135	5.335	54.620	50.000	9.2
4,4'-DDT	6.041	5.940	6.140	54.870	50.000	9.7
Aldrin	4.230	4.129	4.329	54.930	50.000	9.9
alpha-BHC	3.281	3.181	3.381	54.590	50.000	9.2
alpha-Chlordane	5.046	4.945	5.145	54.530	50.000	9.1
beta-BHC	3.911	3.810	4.010	53.180	50.000	6.4
Decachlorobiphenyl	7.918	7.816	8.016	52.880	50.000	5.8
delta-BHC	4.140	4.039	4.239	54.930	50.000	9.9
Dieldrin	5.367	5.266	5.466	55.010	50.000	10.0
Endosulfan I	5.102	5.002	5.202	54.180	50.000	8.4
Endosulfan II	5.937	5.836	6.036	54.800	50.000	9.6
Endosulfan sulfate	6.340	6.238	6.438	54.130	50.000	8.3
Endrin	5.643	5.541	5.741	56.150	50.000	12.3
Endrin aldehyde	6.117	6.015	6.215	53.630	50.000	7.3
Endrin ketone	6.845	6.743	6.943	54.330	50.000	8.7
gamma-BHC (Lindane)	3.611	3.511	3.711	54.760	50.000	9.5
gamma-Chlordane	4.983	4.882	5.082	54.470	50.000	8.9
Heptachlor	3.950	3.849	4.049	54.850	50.000	9.7
Heptachlor epoxide	4.733	4.632	4.832	54.740	50.000	9.5
Methoxychlor	6.617	6.515	6.715	54.270	50.000	8.5
Tetrachloro-m-xylene	2.778	2.678	2.878	52.780	50.000	5.6

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 17:38 **Initial Calibration Time(s):** 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.54	3.54	3.44	3.64	0.00
alpha-BHC	4.00	4.00	3.90	4.10	0.00
beta-BHC	4.53	4.53	4.43	4.63	0.00
delta-BHC	4.78	4.77	4.67	4.87	-0.01
gamma-BHC (Lindane)	4.33	4.33	4.23	4.43	0.00
Heptachlor	4.92	4.92	4.82	5.02	0.00
Aldrin	5.26	5.26	5.16	5.36	0.00
Heptachlor epoxide	5.69	5.68	5.58	5.78	-0.01
Endosulfan I	6.07	6.07	5.97	6.17	0.00
Dieldrin	6.35	6.35	6.25	6.45	0.00
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
Endrin	6.58	6.57	6.47	6.67	-0.01
Endosulfan II	6.80	6.79	6.69	6.89	-0.01
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.65	7.64	7.54	7.74	-0.01
Endrin aldehyde	6.93	6.92	6.82	7.02	-0.01
alpha-Chlordane	6.02	6.02	5.92	6.12	0.00
gamma-Chlordane	5.94	5.94	5.84	6.04	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Continuing Calib Date: 11/01/2024 **Initial Calibration Date(s):** 10/28/2024 10/28/2024

Continuing Calib Time: 17:38 **Initial Calibration Time(s):** 14:43 15:36

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.92	7.92	7.82	8.02	0.00
Tetrachloro-m-xylene	2.78	2.78	2.68	2.88	0.00
alpha-BHC	3.28	3.28	3.18	3.38	0.00
beta-BHC	3.91	3.91	3.81	4.01	0.00
delta-BHC	4.14	4.14	4.04	4.24	0.00
gamma-BHC (Lindane)	3.61	3.61	3.51	3.71	0.00
Heptachlor	3.95	3.95	3.85	4.05	0.00
Aldrin	4.23	4.23	4.13	4.33	0.00
Heptachlor epoxide	4.73	4.73	4.63	4.83	0.00
Endosulfan I	5.10	5.10	5.00	5.20	0.00
Dieldrin	5.37	5.37	5.27	5.47	0.00
4,4'-DDE	5.24	5.24	5.14	5.34	0.00
Endrin	5.64	5.64	5.54	5.74	0.00
Endosulfan II	5.94	5.94	5.84	6.04	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
Endosulfan sulfate	6.34	6.34	6.24	6.44	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00
Methoxychlor	6.62	6.62	6.52	6.72	0.00
Endrin ketone	6.85	6.84	6.74	6.94	0.00
Endrin aldehyde	6.12	6.12	6.02	6.22	0.00
alpha-Chlordane	5.05	5.05	4.95	5.15	0.00
gamma-Chlordane	4.98	4.98	4.88	5.08	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092813.D **Time Analyzed:** 17:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.714	6.610	6.810	51.110	50.000	2.2
4,4'-DDE	6.196	6.093	6.293	50.280	50.000	0.6
4,4'-DDT	7.027	6.923	7.123	47.950	50.000	-4.1
Aldrin	5.261	5.158	5.358	49.900	50.000	-0.2
alpha-BHC	3.998	3.896	4.096	52.050	50.000	4.1
alpha-Chlordane	6.023	5.919	6.119	49.350	50.000	-1.3
beta-BHC	4.528	4.425	4.625	51.060	50.000	2.1
Decachlorobiphenyl	9.059	8.954	9.154	48.010	50.000	-4.0
delta-BHC	4.776	4.672	4.872	51.620	50.000	3.2
Dieldrin	6.348	6.245	6.445	49.300	50.000	-1.4
Endosulfan I	6.073	5.970	6.170	49.270	50.000	-1.5
Endosulfan II	6.798	6.694	6.894	47.690	50.000	-4.6
Endosulfan sulfate	7.162	7.058	7.258	47.690	50.000	-4.6
Endrin	6.578	6.474	6.674	48.210	50.000	-3.6
Endrin aldehyde	6.928	6.824	7.024	48.300	50.000	-3.4
Endrin ketone	7.647	7.543	7.743	47.920	50.000	-4.2
gamma-BHC (Lindane)	4.331	4.228	4.428	51.720	50.000	3.4
gamma-Chlordane	5.943	5.841	6.041	49.530	50.000	-0.9
Heptachlor	4.919	4.817	5.017	50.590	50.000	1.2
Heptachlor epoxide	5.688	5.584	5.784	49.630	50.000	-0.7
Methoxychlor	7.503	7.399	7.599	48.250	50.000	-3.5
Tetrachloro-m-xylene	3.542	3.440	3.640	51.120	50.000	2.2

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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No.: CCAL02 **Date Analyzed:** 11/01/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL092813.D **Time Analyzed:** 17:38

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.791	5.689	5.889	55.120	50.000	10.2
4,4'-DDE	5.236	5.135	5.335	53.920	50.000	7.8
4,4'-DDT	6.041	5.940	6.140	51.960	50.000	3.9
Aldrin	4.230	4.129	4.329	55.260	50.000	10.5
alpha-BHC	3.281	3.181	3.381	55.240	50.000	10.5
alpha-Chlordane	5.047	4.945	5.145	53.720	50.000	7.4
beta-BHC	3.911	3.810	4.010	53.710	50.000	7.4
Decachlorobiphenyl	7.918	7.816	8.016	48.450	50.000	-3.1
delta-BHC	4.140	4.039	4.239	55.360	50.000	10.7
Dieldrin	5.367	5.266	5.466	53.510	50.000	7.0
Endosulfan I	5.103	5.002	5.202	53.110	50.000	6.2
Endosulfan II	5.938	5.836	6.036	53.360	50.000	6.7
Endosulfan sulfate	6.340	6.238	6.438	51.790	50.000	3.6
Endrin	5.643	5.541	5.741	54.350	50.000	8.7
Endrin aldehyde	6.117	6.015	6.215	51.480	50.000	3.0
Endrin ketone	6.845	6.743	6.943	51.740	50.000	3.5
gamma-BHC (Lindane)	3.611	3.511	3.711	55.260	50.000	10.5
gamma-Chlordane	4.983	4.882	5.082	54.020	50.000	8.0
Heptachlor	3.950	3.849	4.049	54.920	50.000	9.8
Heptachlor epoxide	4.733	4.632	4.832	54.550	50.000	9.1
Methoxychlor	6.617	6.515	6.715	50.610	50.000	1.2
Tetrachloro-m-xylene	2.778	2.678	2.878	53.690	50.000	7.4

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.059	8.960	9.160	19.970	20.000	-0.2
Tetrachloro-m-xylene	3.546	3.500	3.600	19.290	20.000	-3.6
alpha-BHC	4.001	3.950	4.050	9.920	10.000	-0.8
beta-BHC	4.531	4.480	4.580	10.060	10.000	0.6
gamma-BHC (Lindane)	4.334	4.280	4.380	9.660	10.000	-3.4
Endrin	6.580	6.510	6.650	41.060	50.000	-17.9
4,4'-DDT	7.030	6.960	7.100	88.060	100.000	-11.9
Methoxychlor	7.505	7.430	7.580	204.090	250.000	-18.4

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092653.D **Date Analyzed:** 10/28/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 14:16

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.918	7.820	8.020	19.080	20.000	-4.6
Tetrachloro-m-xylene	2.778	2.730	2.830	18.500	20.000	-7.5
alpha-BHC	3.281	3.230	3.330	8.630	10.000	-13.7
beta-BHC	3.911	3.860	3.960	9.760	10.000	-2.4
gamma-BHC (Lindane)	3.611	3.560	3.660	8.390	10.000	-16.1
Endrin	5.643	5.570	5.710	44.130	50.000	-11.7
4,4'-DDT	6.042	5.970	6.110	98.070	100.000	-1.9
Methoxychlor	6.616	6.550	6.690	225.800	250.000	-9.7

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092788.D **Date Analyzed:** 11/01/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.057	8.960	9.160	20.940	20.000	4.7
Tetrachloro-m-xylene	3.541	3.490	3.590	21.750	20.000	8.8
alpha-BHC	3.997	3.950	4.050	11.350	10.000	13.5
beta-BHC	4.527	4.480	4.580	11.540	10.000	15.4
gamma-BHC (Lindane)	4.330	4.280	4.380	11.170	10.000	11.7
Endrin	6.577	6.510	6.650	46.250	50.000	-7.5
4,4'-DDT	7.026	6.960	7.100	94.880	100.000	-5.1
Methoxychlor	7.503	7.430	7.570	217.230	250.000	-13.1

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/28/2024 10/28/2024

Client Sample No. (PEM): PEM - PL092788.D **Date Analyzed:** 11/01/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.919	7.820	8.020	21.510	20.000	7.6
Tetrachloro-m-xylene	2.779	2.730	2.830	20.950	20.000	4.8
alpha-BHC	3.281	3.230	3.330	10.060	10.000	0.6
beta-BHC	3.911	3.860	3.960	11.200	10.000	12.0
gamma-BHC (Lindane)	3.612	3.560	3.660	9.800	10.000	-2.0
Endrin	5.643	5.570	5.710	52.500	50.000	5.0
4,4'-DDT	6.042	5.970	6.110	113.340	100.000	13.3
Methoxychlor	6.617	6.550	6.690	254.450	250.000	1.8

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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/28/2024	13:55	PL092652.D	9.05	3.54
PEM	PEM	10/28/2024	14:16	PL092653.D	9.06	3.55
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	9.05	3.54
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	9.05	3.54
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	9.05	3.54
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	9.05	3.54
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	9.05	3.54
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	9.05	3.54
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	9.06	3.54
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	9.05	3.54
PEM	PEM	11/01/2024	11:43	PL092788.D	9.06	3.54
I.BLK	I.BLK	11/01/2024	14:15	PL092799.D	9.06	3.54
PSTDCCC050	PSTDCCC050	11/01/2024	14:29	PL092800.D	9.06	3.54
PB164592BL	PB164592BL	11/01/2024	14:47	PL092801.D	9.06	3.55
PB164592BS	PB164592BS	11/01/2024	15:01	PL092802.D	9.06	3.54
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/01/2024	15:56	PL092806.D	9.06	3.54
RES-BUILDING-PAD-NO-11	P4663-04	11/01/2024	16:10	PL092807.D	9.06	3.54
RES-BUILDING-PAD-NO-3	P4663-06	11/01/2024	16:24	PL092808.D	9.06	3.54
RES-BUILDING-PAD-NO-2	P4663-08	11/01/2024	16:38	PL092809.D	9.06	3.54
RES-BUILDING-PAD-NO-2MS	P4663-08MS	11/01/2024	16:52	PL092810.D	9.06	3.54
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	11/01/2024	17:06	PL092811.D	9.06	3.54
I.BLK	I.BLK	11/01/2024	17:24	PL092812.D	9.06	3.55
PSTDCCC050	PSTDCCC050	11/01/2024	17:38	PL092813.D	9.06	3.54

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Analytical Sequence

Client: Union Paving & Construction Company **SDG No.:** P4663

Project: Rt. 10 Whippany **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/28/2024 10/28/2024

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/28/2024	13:55	PL092652.D	7.92	2.78
PEM	PEM	10/28/2024	14:16	PL092653.D	7.92	2.78
RESCHK	RESCHK	10/28/2024	14:29	PL092654.D	7.92	2.78
PSTDICC100	PSTDICC100	10/28/2024	14:43	PL092655.D	7.92	2.78
PSTDICC075	PSTDICC075	10/28/2024	14:56	PL092656.D	7.92	2.78
PSTDICC050	PSTDICC050	10/28/2024	15:09	PL092657.D	7.92	2.78
PSTDICC025	PSTDICC025	10/28/2024	15:23	PL092658.D	7.92	2.78
PSTDICC005	PSTDICC005	10/28/2024	15:36	PL092659.D	7.92	2.78
PCHLORICC500	PCHLORICC500	10/28/2024	16:16	PL092662.D	7.92	2.78
PTOXICC500	PTOXICC500	10/28/2024	17:23	PL092667.D	7.92	2.78
PEM	PEM	11/01/2024	11:43	PL092788.D	7.92	2.78
I.BLK	I.BLK	11/01/2024	14:15	PL092799.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/01/2024	14:29	PL092800.D	7.92	2.78
PB164592BL	PB164592BL	11/01/2024	14:47	PL092801.D	7.92	2.78
PB164592BS	PB164592BS	11/01/2024	15:01	PL092802.D	7.92	2.78
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/01/2024	15:56	PL092806.D	7.92	2.78
RES-BUILDING-PAD-NO-11	P4663-04	11/01/2024	16:10	PL092807.D	7.92	2.78
RES-BUILDING-PAD-NO-3	P4663-06	11/01/2024	16:24	PL092808.D	7.92	2.78
RES-BUILDING-PAD-NO-2	P4663-08	11/01/2024	16:38	PL092809.D	7.93	2.80
RES-BUILDING-PAD-NO-2MS	P4663-08MS	11/01/2024	16:52	PL092810.D	7.92	2.78
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	11/01/2024	17:06	PL092811.D	7.92	2.78
I.BLK	I.BLK	11/01/2024	17:24	PL092812.D	7.92	2.78
PSTDCCC050	PSTDCCC050	11/01/2024	17:38	PL092813.D	7.92	2.78

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164592BS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: PB164592BS **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	17.6	7.7
	2	5.79	5.74	5.84	19.0	
4,4'-DDE	1	6.20	6.15	6.25	17.5	7.2
	2	5.24	5.19	5.29	18.8	
4,4'-DDT	1	7.03	6.98	7.08	18.1	6.4
	2	6.04	5.99	6.09	19.3	
Aldrin	1	5.26	5.21	5.31	16.7	6.4
	2	4.23	4.18	4.28	17.8	
alpha-BHC	1	4.00	3.95	4.05	16.9	4.6
	2	3.28	3.23	3.33	17.7	
alpha-Chlordane	1	6.02	5.97	6.07	17.6	6.1
	2	5.05	5.00	5.10	18.7	
beta-BHC	1	4.53	4.48	4.58	17.2	4.5
	2	3.91	3.86	3.96	18.0	
delta-BHC	1	4.78	4.73	4.83	15.1	3.3
	2	4.14	4.09	4.19	15.6	
Dieldrin	1	6.35	6.30	6.40	17.5	7.7
	2	5.37	5.32	5.42	18.9	
Endosulfan I	1	6.07	6.02	6.12	17.4	7.2
	2	5.10	5.05	5.15	18.7	
Endosulfan II	1	6.80	6.75	6.85	17.3	10.4
	2	5.94	5.89	5.99	19.2	
Endosulfan sulfate	1	7.16	7.11	7.21	17.0	9
	2	6.34	6.29	6.39	18.6	
Endrin	1	6.58	6.53	6.63	17.2	14.1
	2	5.64	5.59	5.69	19.8	
Endrin aldehyde	1	6.93	6.88	6.98	16.9	6.9
	2	6.12	6.07	6.17	18.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164592BS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: PB164592BS **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin ketone	1	7.65	7.60	7.70	17.2	8.4
	2	6.85	6.80	6.90	18.7	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	16.7	5.2
	2	3.61	3.56	3.66	17.6	
gamma-Chlordane	1	5.94	5.89	5.99	17.8	6
	2	4.98	4.93	5.03	18.9	
Heptachlor	1	4.92	4.87	4.97	17.7	5.5
	2	3.95	3.90	4.00	18.7	
Heptachlor epoxide	1	5.69	5.64	5.74	17.0	7.9
	2	4.73	4.68	4.78	18.4	
Methoxychlor	1	7.50	7.45	7.55	17.2	8.4
	2	6.62	6.57	6.67	18.7	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

RES-BUILDING-PAD-NO-11

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-04 **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDE	1	6.19	6.14	6.24	0.22	17.8
	2	5.23	5.18	5.28	0.18	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

RES-BUILDING-PAD-NO-2MS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MS **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	16.3	0.6
	2	5.79	5.74	5.84	16.4	
4,4'-DDE	1	6.20	6.15	6.25	16.3	10.5
	2	5.24	5.19	5.29	18.1	
4,4'-DDT	1	7.03	6.98	7.08	16.0	4.3
	2	6.04	5.99	6.09	16.7	
Aldrin	1	5.26	5.21	5.31	15.8	8.5
	2	4.23	4.18	4.28	17.2	
alpha-BHC	1	4.00	3.95	4.05	14.8	4.6
	2	3.28	3.23	3.33	15.5	
alpha-Chlordane	1	6.02	5.97	6.07	16.3	7.7
	2	5.05	5.00	5.10	17.6	
beta-BHC	1	4.53	4.48	4.58	16.8	5.2
	2	3.91	3.86	3.96	17.7	
delta-BHC	1	4.77	4.72	4.82	4.60	9.1
	2	4.14	4.09	4.19	4.20	
Dieldrin	1	6.35	6.30	6.40	15.9	9.6
	2	5.37	5.32	5.42	17.5	
Endosulfan I	1	6.07	6.02	6.12	16.0	9
	2	5.10	5.05	5.15	17.5	
Endosulfan II	1	6.80	6.75	6.85	15.6	7.4
	2	5.94	5.89	5.99	16.8	
Endosulfan sulfate	1	7.16	7.11	7.21	13.0	3
	2	6.34	6.29	6.39	13.4	
Endrin	1	6.58	6.53	6.63	15.7	12.5
	2	5.64	5.59	5.69	17.8	
Endrin aldehyde	1	6.93	6.88	6.98	15.5	2.5
	2	6.12	6.07	6.17	15.9	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

RES-BUILDING-PAD-NO-2MS

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MS **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endrin ketone	1	7.65	7.60	7.70	15.4	2.6
	2	6.85	6.80	6.90	15.8	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	14.9	5.2
	2	3.61	3.56	3.66	15.7	
gamma-Chlordane	1	5.94	5.89	5.99	16.6	7
	2	4.98	4.93	5.03	17.8	
Heptachlor	1	4.92	4.87	4.97	16.5	8.1
	2	3.95	3.90	4.00	17.9	
Heptachlor epoxide	1	5.69	5.64	5.74	15.8	7.3
	2	4.73	4.68	4.78	17.0	
Methoxychlor	1	7.50	7.45	7.55	15.9	4.3
	2	6.62	6.57	6.67	16.6	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

RES-BUILDING-PAD-NO-2MSD

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MSD **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.80	6.75	6.85	15.9	8.4
	2	5.94	5.89	5.99	17.3	
Endosulfan sulfate	1	7.16	7.11	7.21	13.2	3.7
	2	6.34	6.29	6.39	13.7	
Endrin	1	6.58	6.53	6.63	15.8	14.7
	2	5.64	5.59	5.69	18.3	
Endrin aldehyde	1	6.93	6.88	6.98	15.5	2.5
	2	6.12	6.07	6.17	15.9	
Endrin ketone	1	7.65	7.60	7.70	15.8	0.6
	2	6.85	6.80	6.90	15.9	
gamma-BHC (Lindane)	1	4.33	4.28	4.38	15.0	5.2
	2	3.61	3.56	3.66	15.8	
gamma-Chlordane	1	5.94	5.89	5.99	16.4	8.7
	2	4.98	4.93	5.03	17.9	
Heptachlor	1	4.92	4.87	4.97	16.7	6.9
	2	3.95	3.90	4.00	17.9	
Heptachlor epoxide	1	5.69	5.64	5.74	16.0	8.4
	2	4.73	4.68	4.78	17.4	
Methoxychlor	1	7.50	7.45	7.55	16.1	6.6
	2	6.62	6.57	6.67	17.2	
4,4'-DDD	1	6.71	6.66	6.76	16.7	4.1
	2	5.79	5.74	5.84	17.4	
4,4'-DDE	1	6.20	6.15	6.25	16.9	6.3
	2	5.24	5.19	5.29	18.0	
4,4'-DDT	1	7.03	6.98	7.08	15.9	5.5
	2	6.04	5.99	6.09	16.8	
Aldrin	1	5.26	5.21	5.31	15.7	8
	2	4.23	4.18	4.28	17.0	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

RES-BUILDING-PAD-NO-2MSD

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-08MSD **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-BHC	1	4.00	3.95	4.05	14.9	3.9
	2	3.28	3.23	3.33	15.5	
alpha-Chlordane	1	6.02	5.97	6.07	16.3	8.2
	2	5.05	5.00	5.10	17.7	
beta-BHC	1	4.53	4.48	4.58	16.9	5.2
	2	3.91	3.86	3.96	17.8	
delta-BHC	1	4.78	4.73	4.83	4.60	9.1
	2	4.14	4.09	4.19	4.20	
Dieldrin	1	6.35	6.30	6.40	16.1	8.3
	2	5.37	5.32	5.42	17.5	
Endosulfan I	1	6.07	6.02	6.12	16.1	8.3
	2	5.10	5.05	5.15	17.5	

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TENNANT-PAD-2-3-STOCKPIL

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663

Lab Sample ID: P4663-02 **Date(s) Analyzed:** 11/01/2024 11/01/2024

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

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
alpha-Chlordane	1	6.02	5.97	6.07	0.48	70.8
	2	5.04	4.99	5.09	0.23	

SAMPLE RAW DATA

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:56
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:43:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.542	2.778	36385751	39432089	14.850	14.491
28)	SA Decachlor...	9.058	7.918	26668283	31801479	13.857	11.652
	Target Compounds						
11)	B alpha-Chl...	6.024	5.044	3491556	2104645	1.318	0.633m#
17)	MA 4,4'-DDT	7.024	6.036	985580	1492693	0.476m	0.557m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sample Results: **PL092806.D**

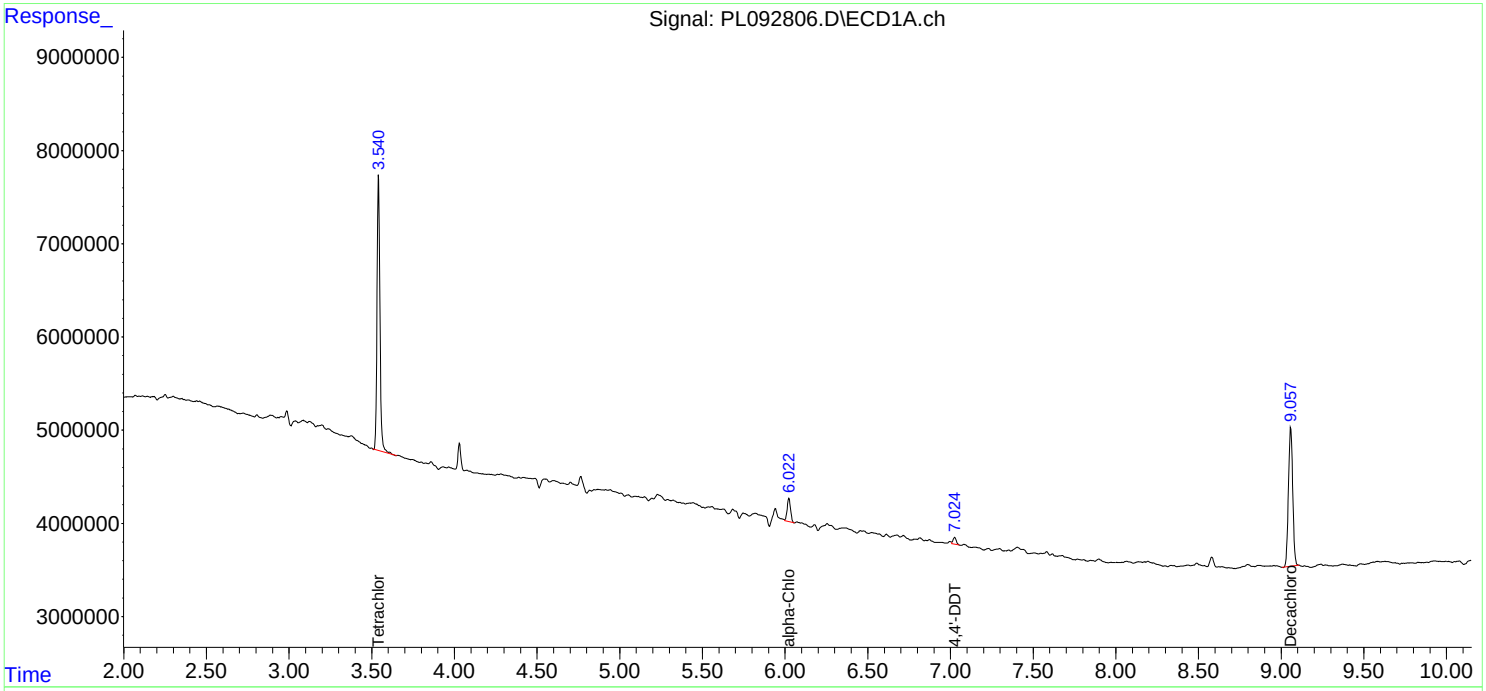
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:56
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

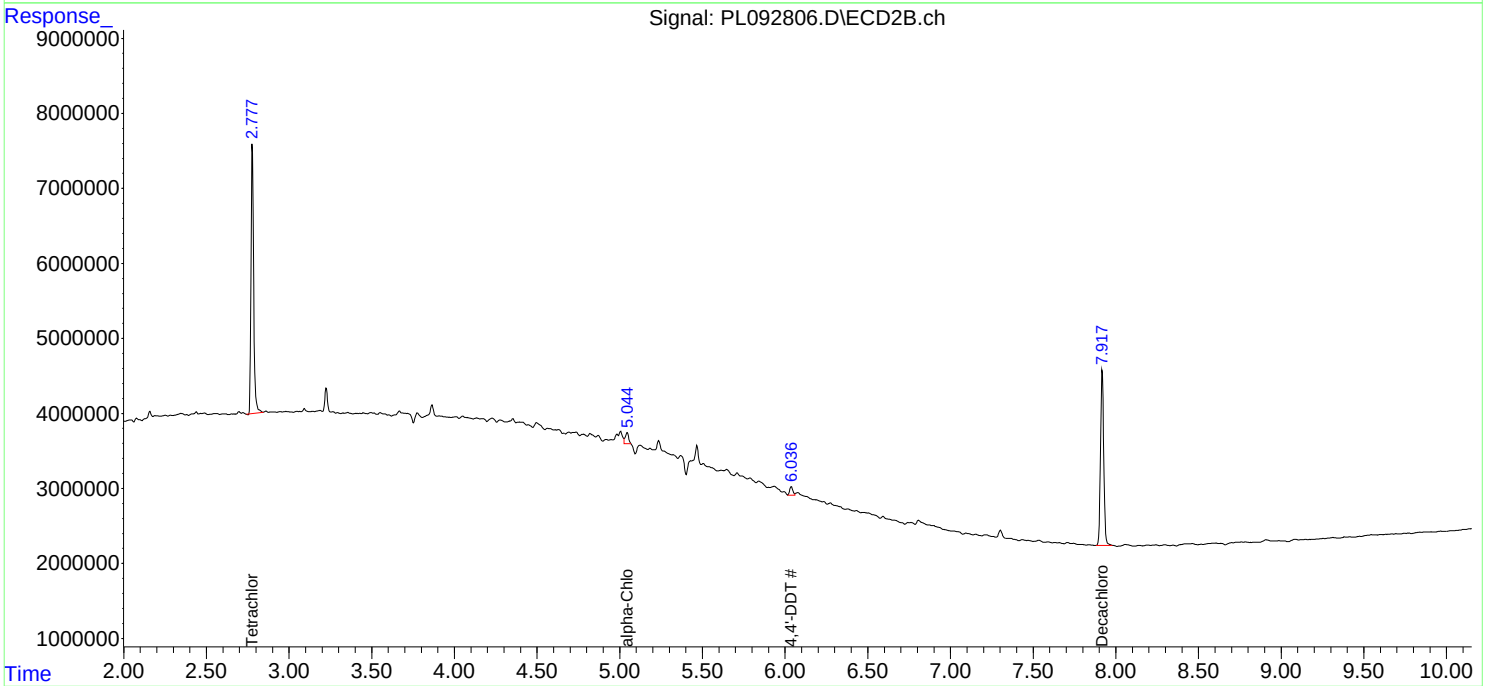
Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

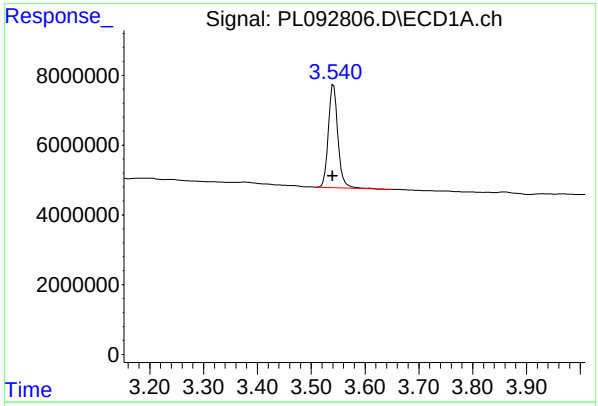
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:43:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







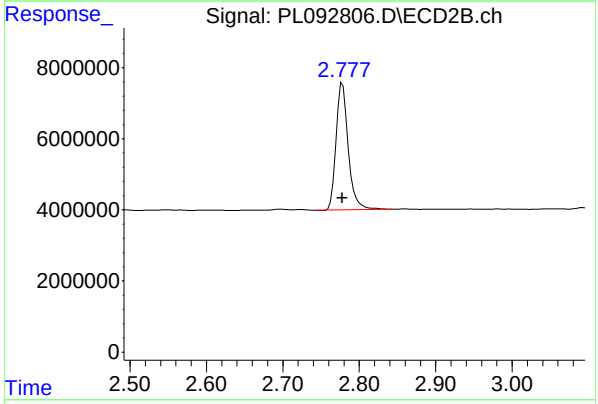
#1 Tetrachloro-m-xylene

R.T.: 3.542 min
Delta R.T.: 0.002 mi
Response: 36385751
Conc: 14.85 ng/m

Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

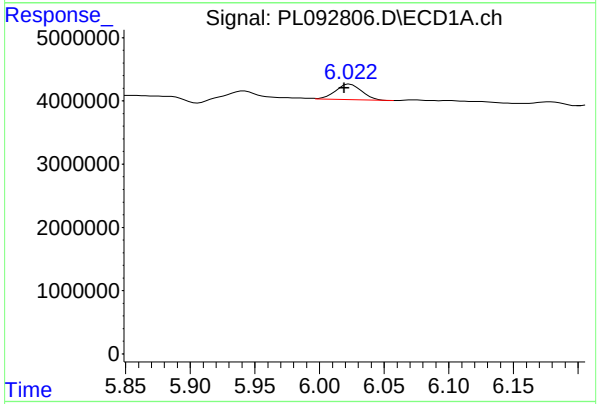
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



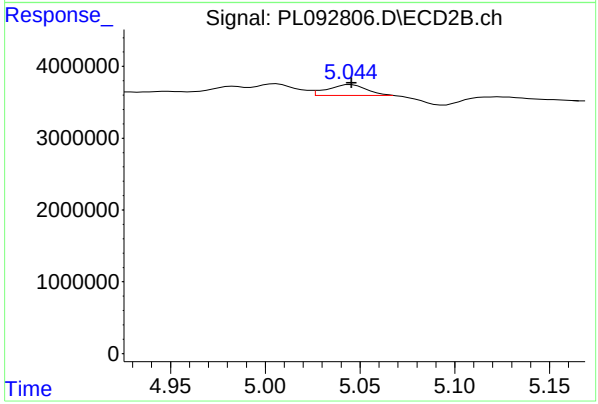
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 39432089
Conc: 14.49 ng/ml



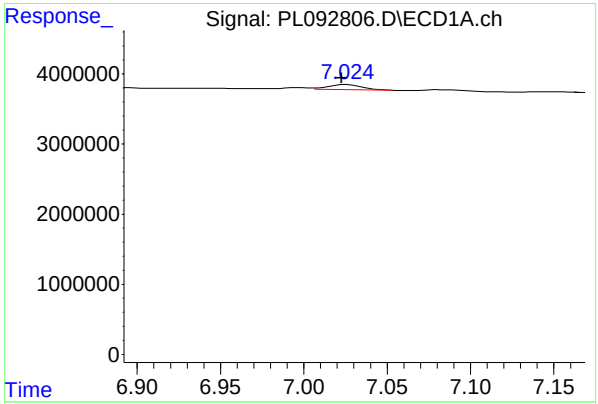
#11 alpha-Chlordane

R.T.: 6.024 min
Delta R.T.: 0.004 min
Response: 3491556
Conc: 1.32 ng/ml



#11 alpha-Chlordane

R.T.: 5.044 min
Delta R.T.: -0.002 min
Response: 2104645
Conc: 0.63 ng/ml m



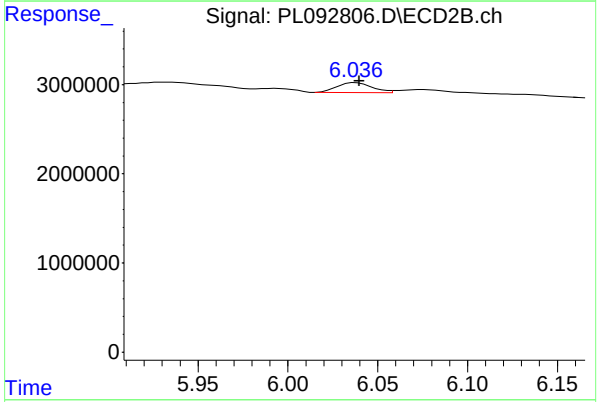
#17 4,4'-DDT

R.T.: 7.024 min
Delta R.T.: 0.002 min
Response: 985580
Conc: 0.48 ng/ml

Instrument :
ECD_L
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

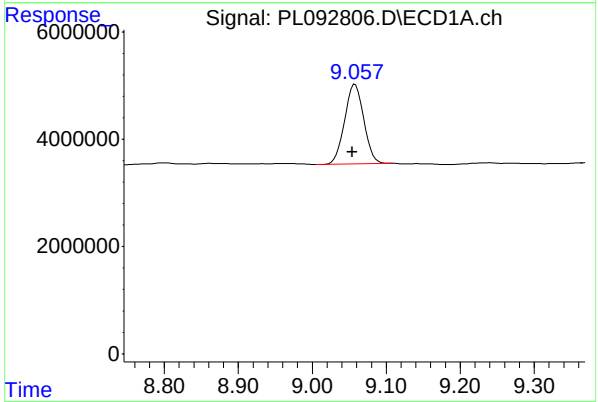
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



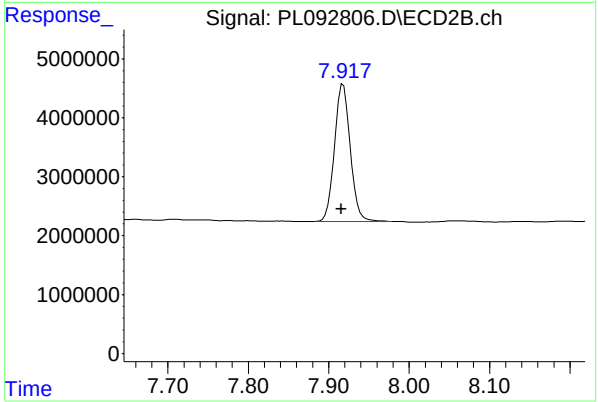
#17 4,4'-DDT

R.T.: 6.036 min
Delta R.T.: -0.004 min
Response: 1492693
Conc: 0.56 ng/ml m



#28 Decachlorobiphenyl

R.T.: 9.058 min
Delta R.T.: 0.004 min
Response: 26668283
Conc: 13.86 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.002 min
Response: 31801479
Conc: 11.65 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092807.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:10
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.541	2.778	35005478	35930823	14.287	13.204
28)	SA Decachlor...	9.056	7.918	24606013	31940307	12.785m	11.703
	Target Compounds						
12)	B 4,4'-DDE	6.191	5.233	1443343	1644831	0.609m	0.511m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092807.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:10
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

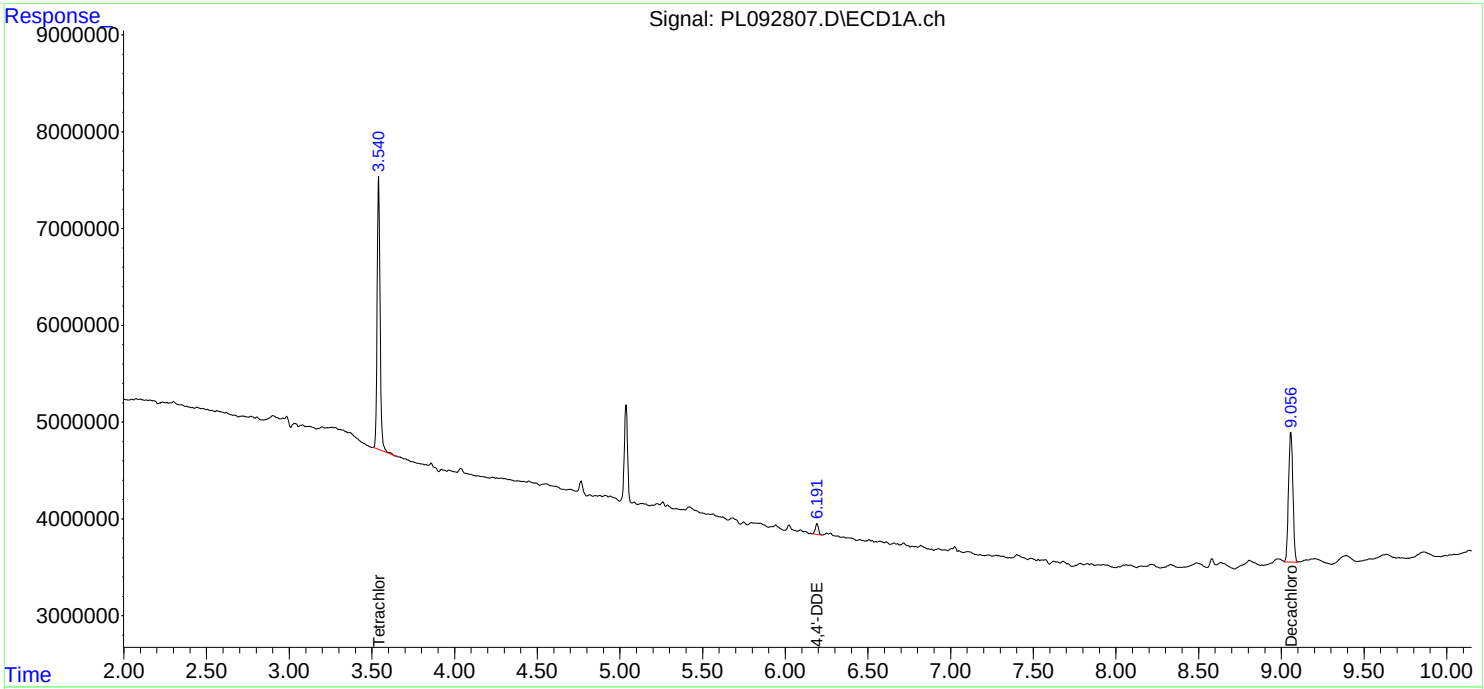
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

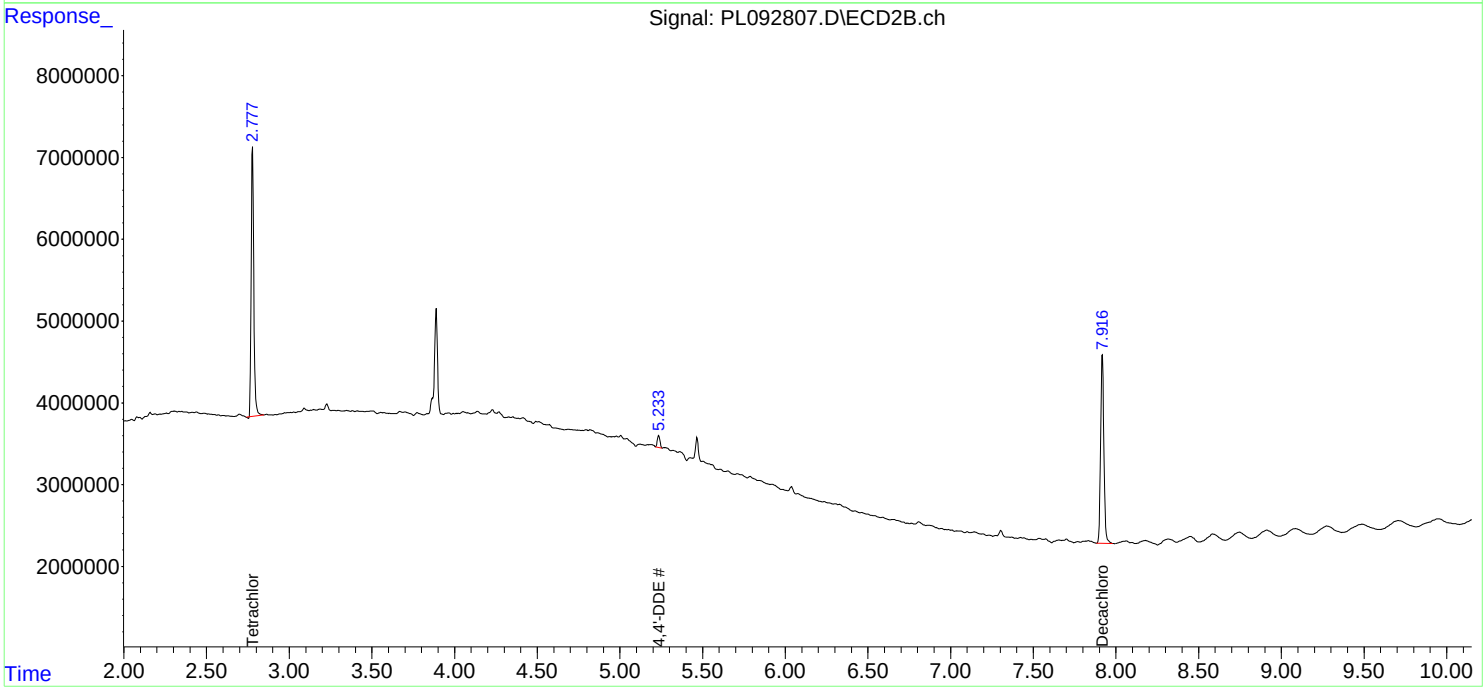
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

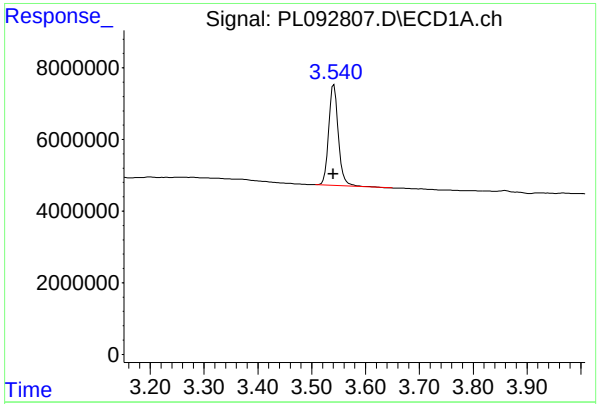
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024







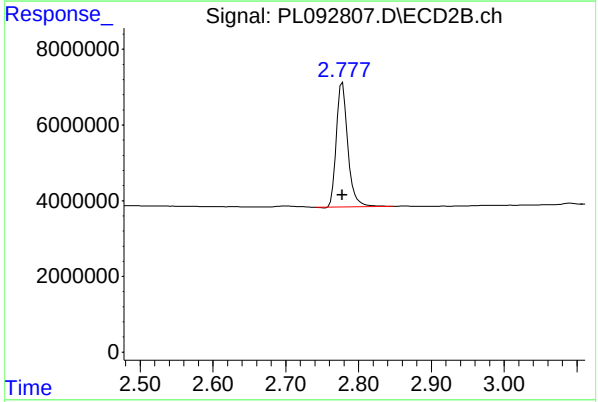
#1 Tetrachloro-m-xylene

R.T.: 3.541 min
Delta R.T.: 0.001 mi
Response: 35005478
Conc: 14.29 ng/m

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

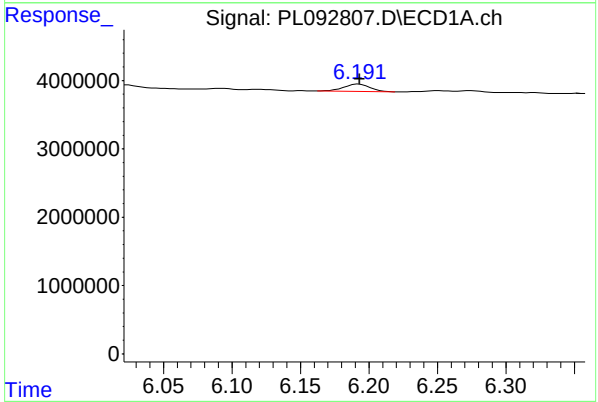
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



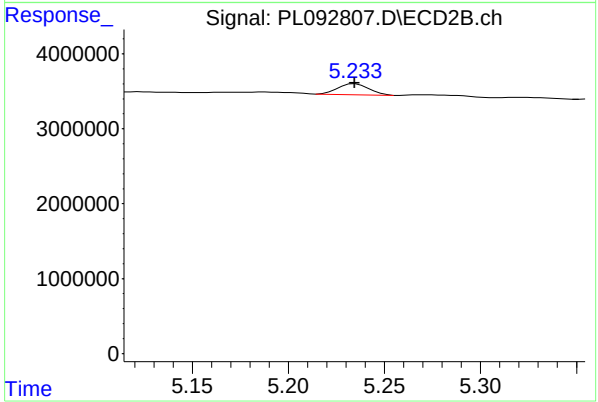
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 35930823
Conc: 13.20 ng/ml



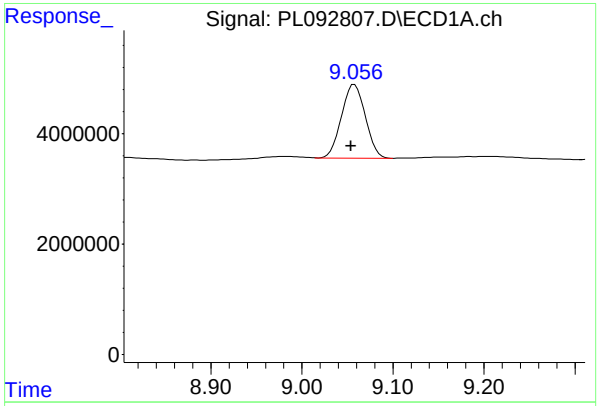
#12 4,4'-DDE

R.T.: 6.191 min
Delta R.T.: -0.002 min
Response: 1443343
Conc: 0.61 ng/ml m



#12 4,4'-DDE

R.T.: 5.233 min
Delta R.T.: -0.001 min
Response: 1644831
Conc: 0.51 ng/ml m



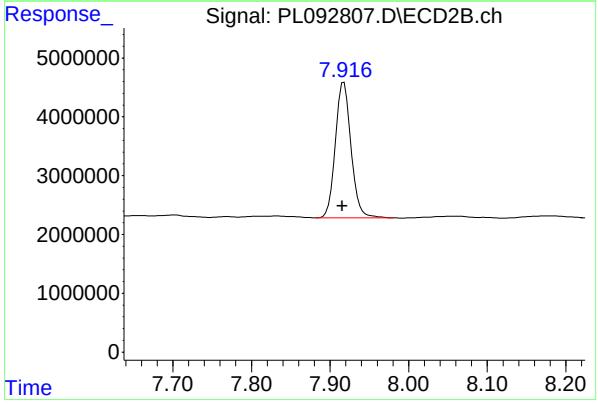
#28 Decachlorobiphenyl

R.T.: 9.056 min
Delta R.T.: 0.002 min
Response: 24606013
Conc: 12.79 ng/ml

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.002 min
Response: 31940307
Conc: 11.70 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092808.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:24
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.542	2.778	36490088	39737059	14.892	14.603
28)	SA Decachlor...	9.059	7.918	28504404	32312205	14.811	11.839
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

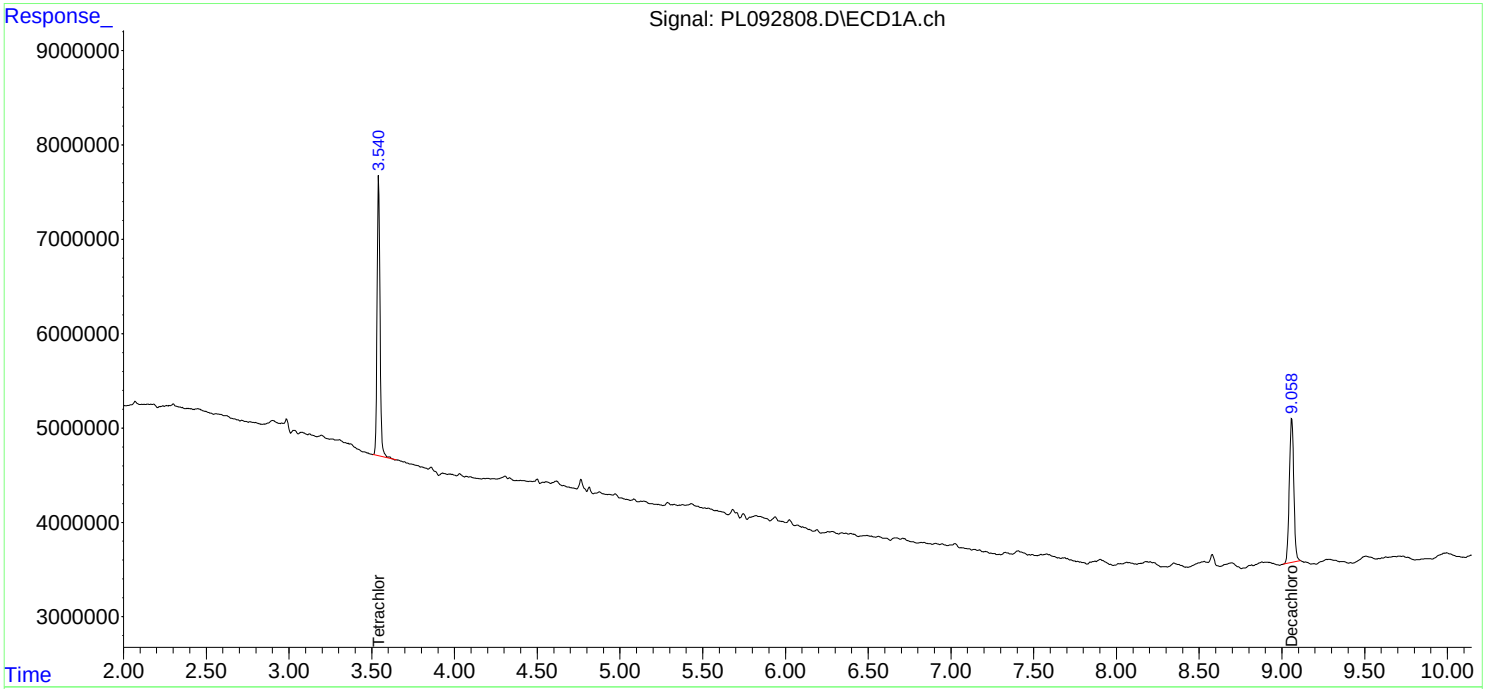
Sample Results: **PL092808.D**

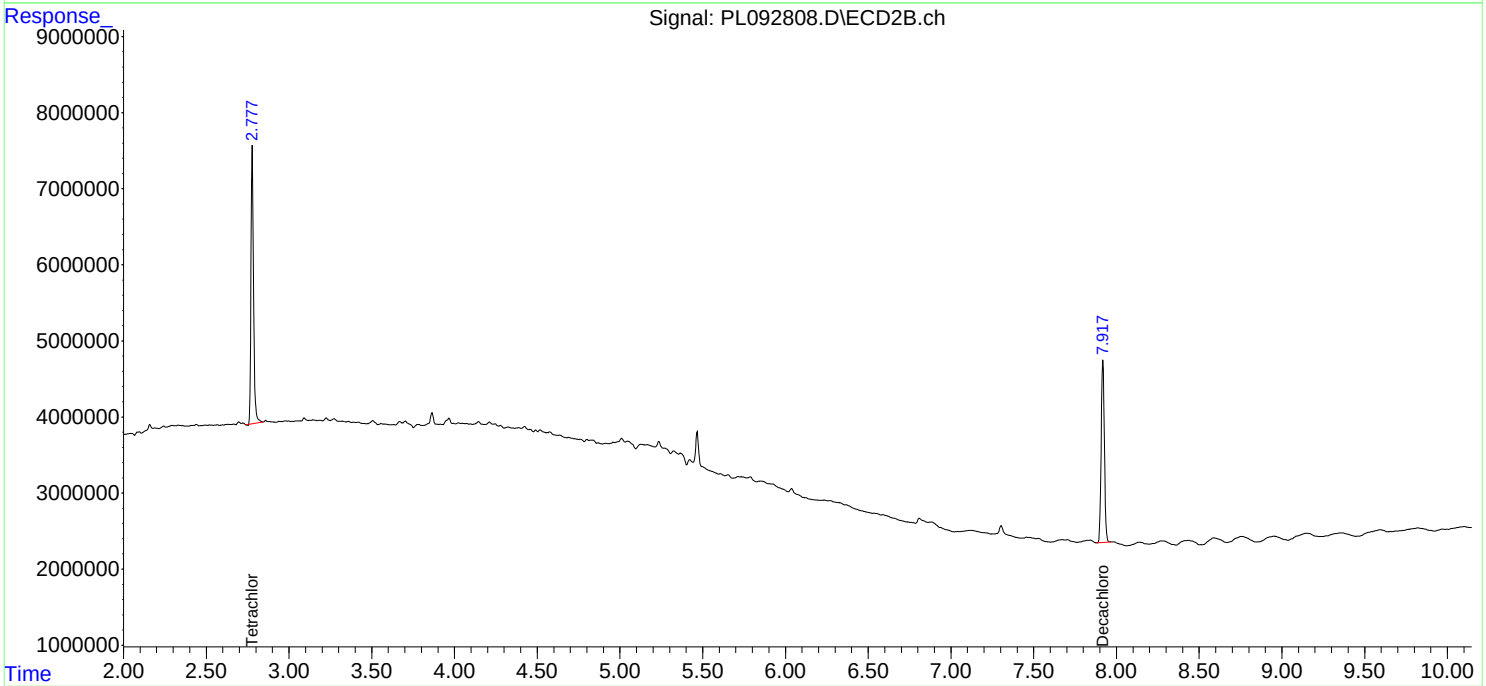
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092808.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:24
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

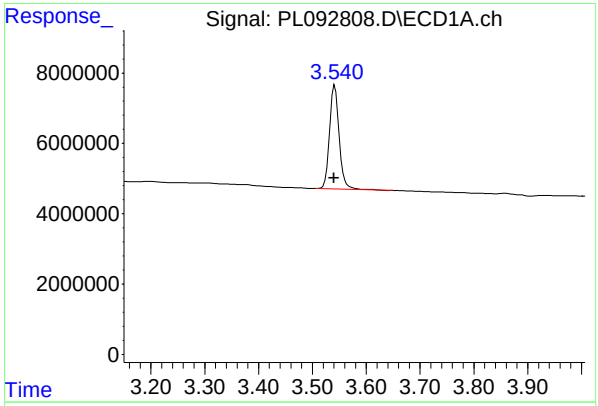
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-3

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



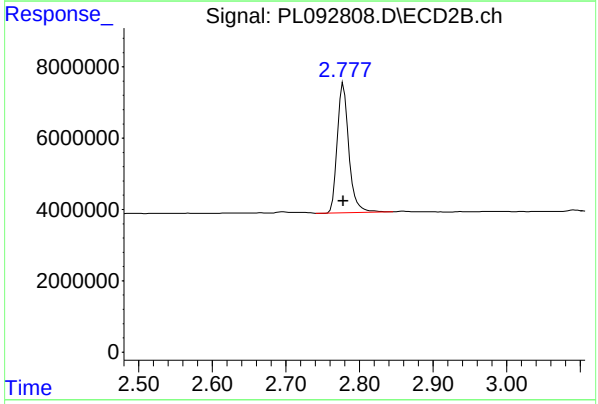




#1 Tetrachloro-m-xylene

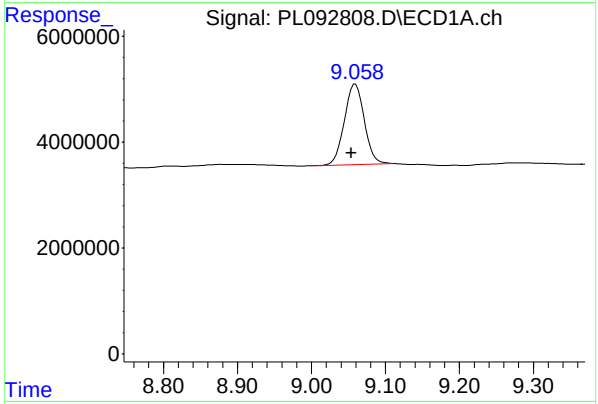
R.T.: 3.542 min
Delta R.T.: 0.002 mi
Response: 36490088
Conc: 14.89 ng/m

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-3



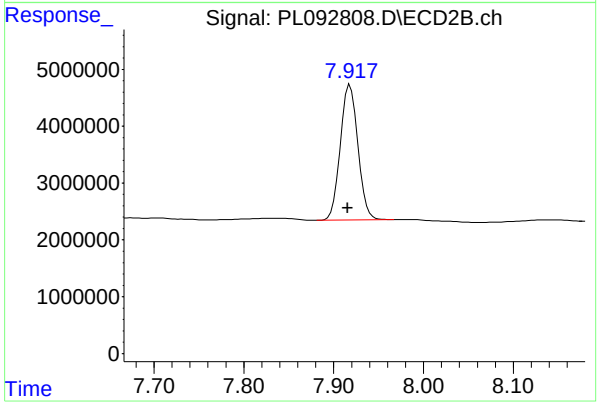
#1 Tetrachloro-m-xylene

R.T.: 2.778 min
Delta R.T.: 0.000 min
Response: 39737059
Conc: 14.60 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.059 min
Delta R.T.: 0.005 min
Response: 28504404
Conc: 14.81 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.918 min
Delta R.T.: 0.003 min
Response: 32312205
Conc: 11.84 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092809.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:38
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.540	2.795	44171610	46707131	18.027m	17.164
28)	SA Decachlor...	9.059	7.933	30794001	39266070	16.001	14.387m
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

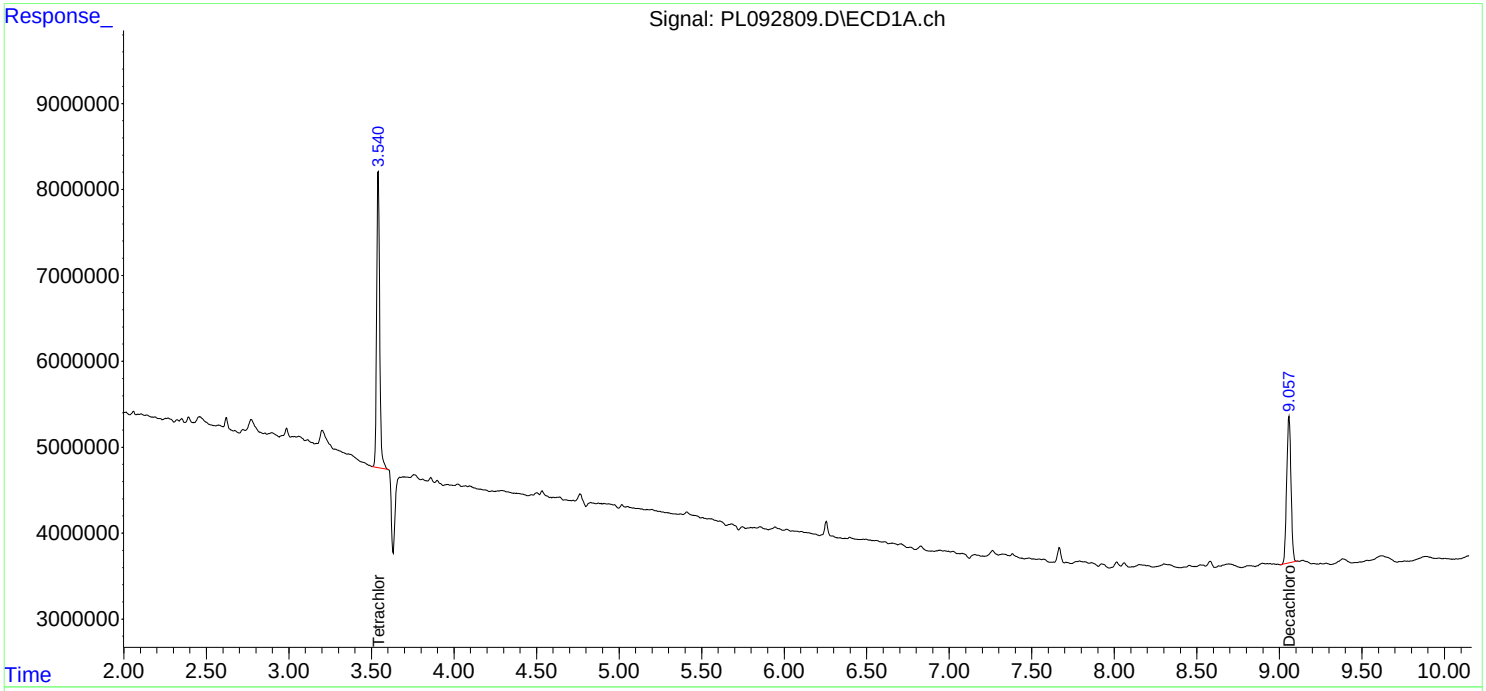
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092809.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:38
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 22 Sample Multiplier: 1

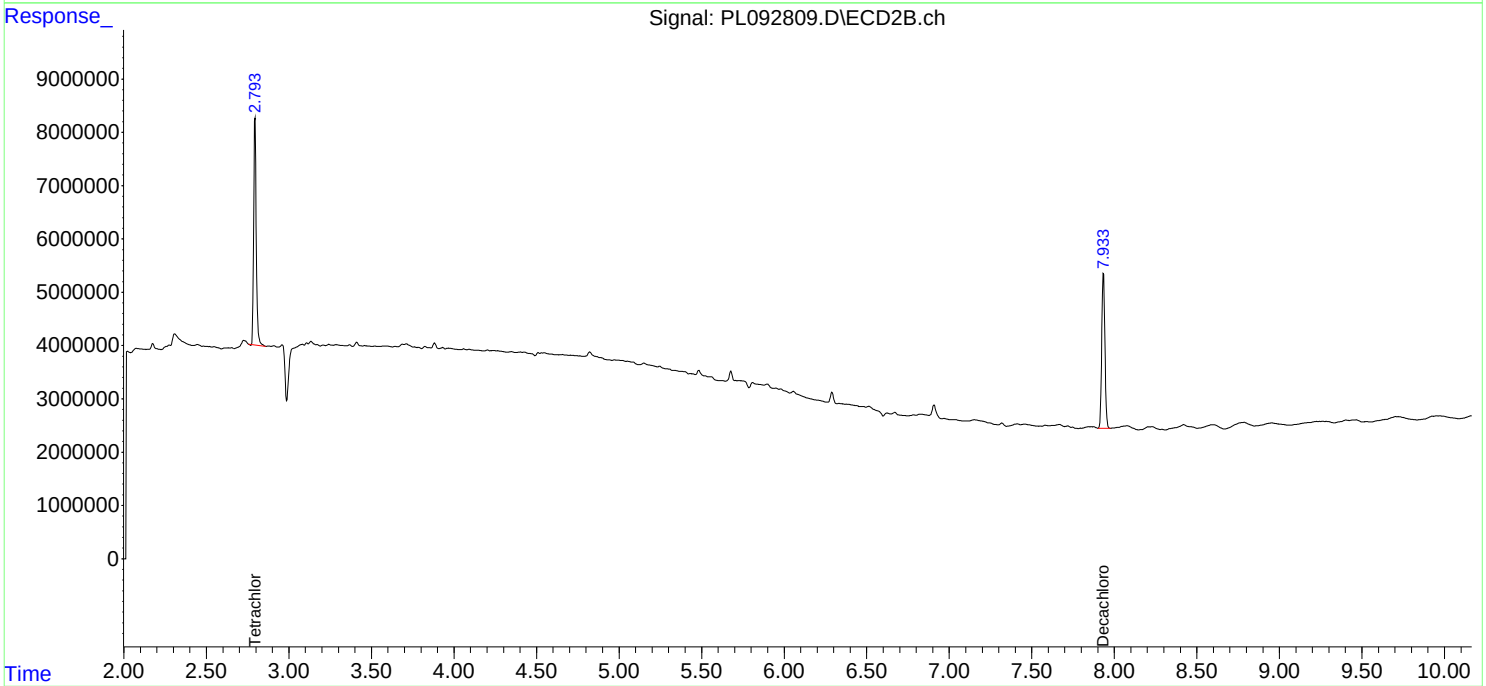
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2

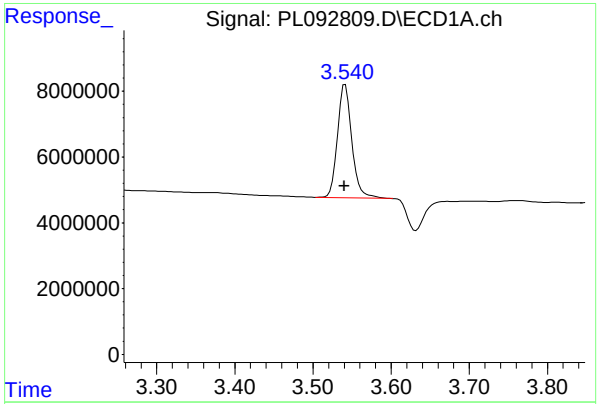
Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:44:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







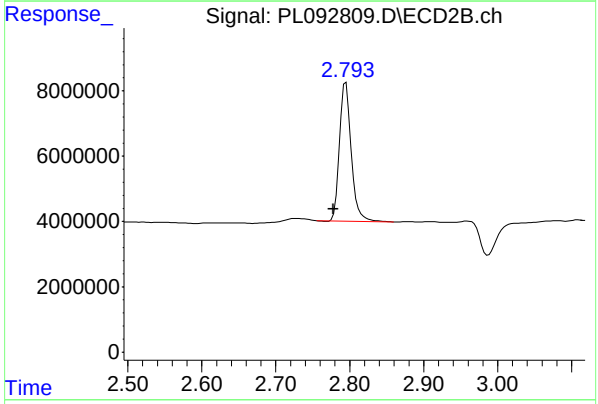
#1 Tetrachloro-m-xylene

R.T.: 3.540 min
Delta R.T.: 0.000 mi
Response: 44171610
Conc: 18.03 ng/m

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2

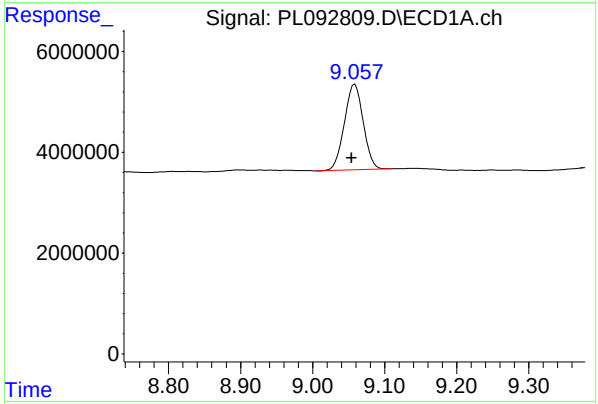
Manual Integrations APPROVED

Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024



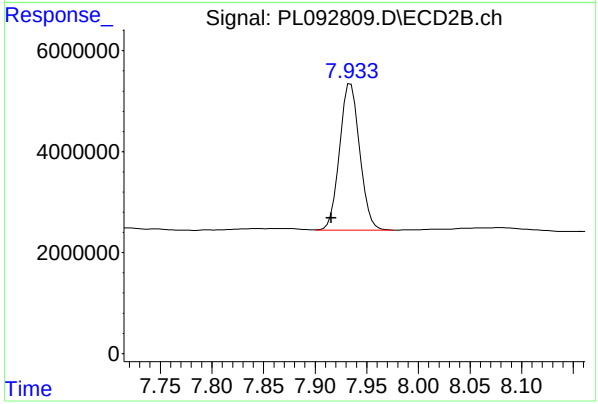
#1 Tetrachloro-m-xylene

R.T.: 2.795 min
Delta R.T.: 0.017 min
Response: 46707131
Conc: 17.16 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.059 min
Delta R.T.: 0.005 min
Response: 30794001
Conc: 16.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.933 min
Delta R.T.: 0.017 min
Response: 39266070
Conc: 14.39 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092801.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:47
Operator : AR\AJ
Sample : PB164592BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164592BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1)	SA Tetrachlo...	3.546	2.779	48927386	51903561	19.968	19.074
28)	SA Decachlor...	9.063	7.920	40833698	60045385	21.217	22.001
	Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

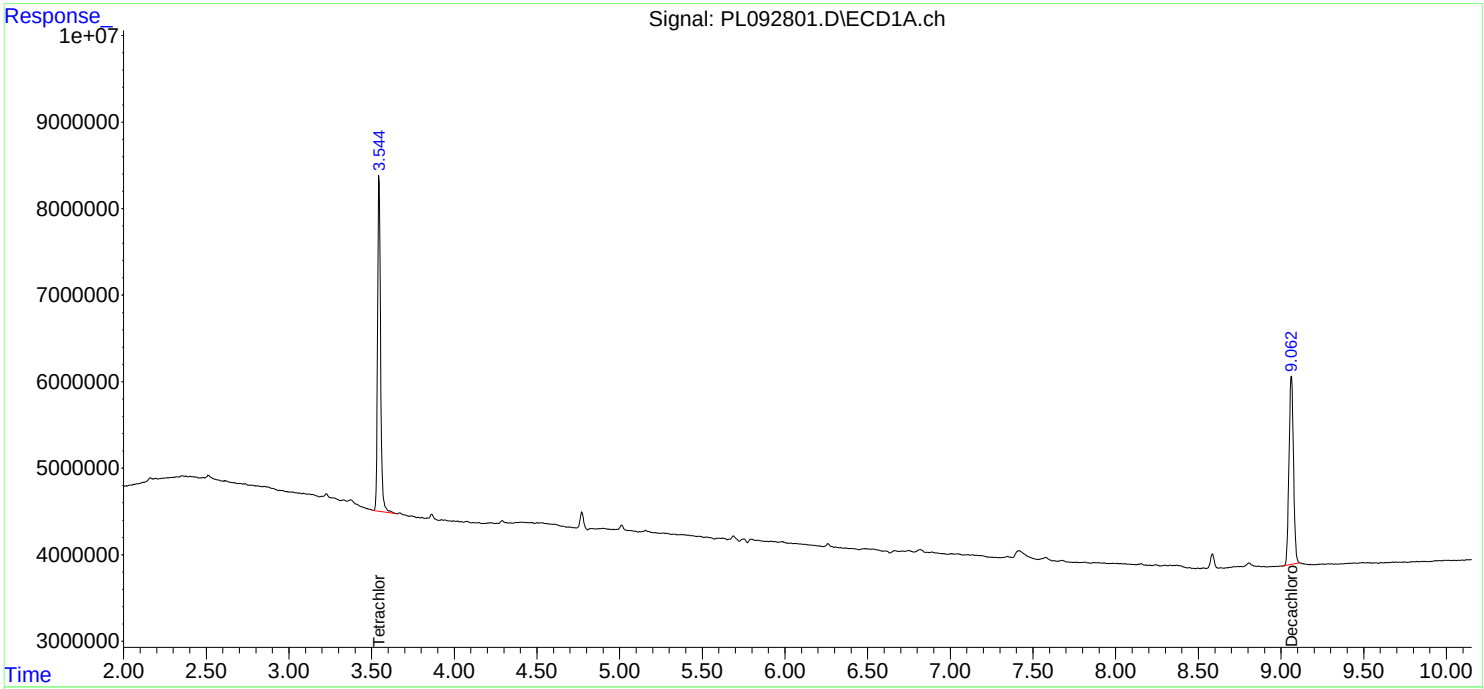
Sample Results: **PL092801.D**

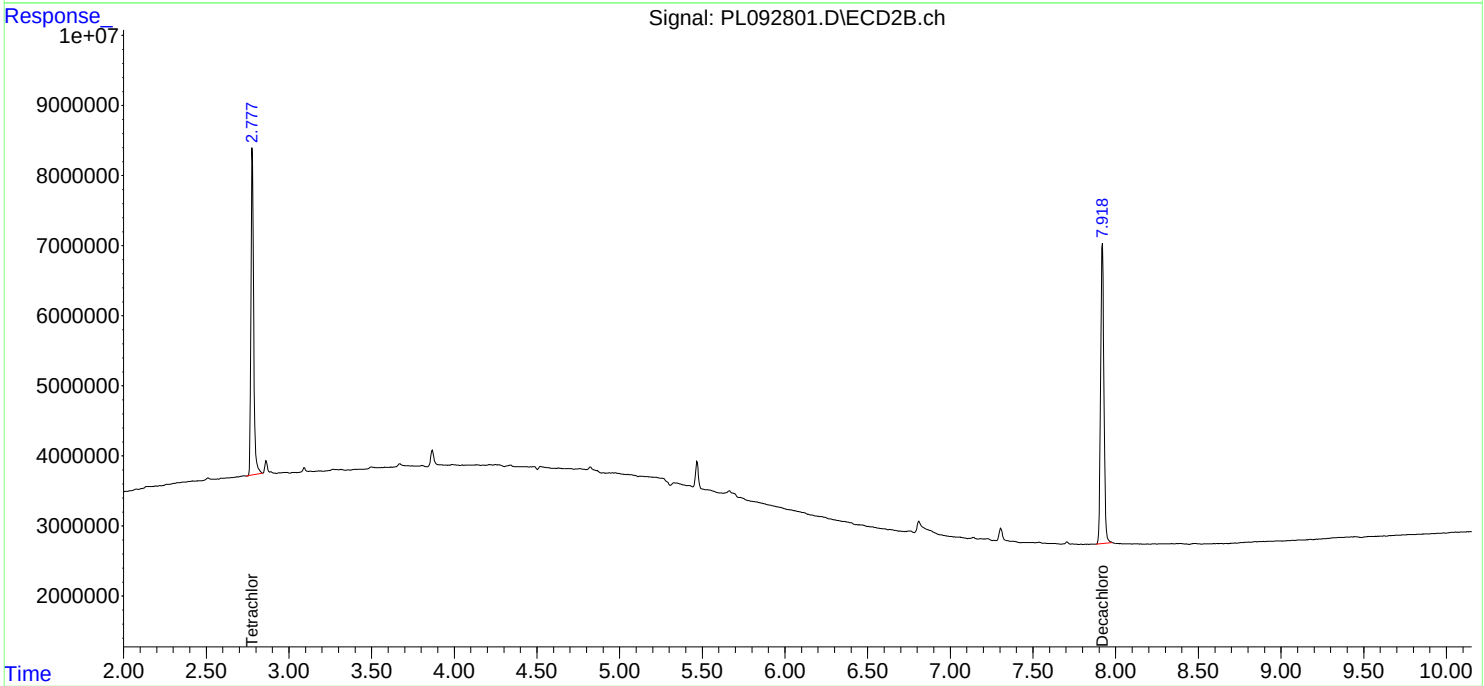
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092801.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 14:47
Operator : AR\AJ
Sample : PB164592BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

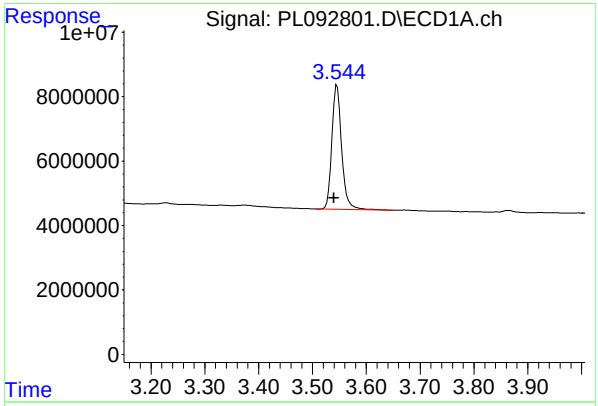
Instrument :
ECD_L
ClientSampleId :
PB164592BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



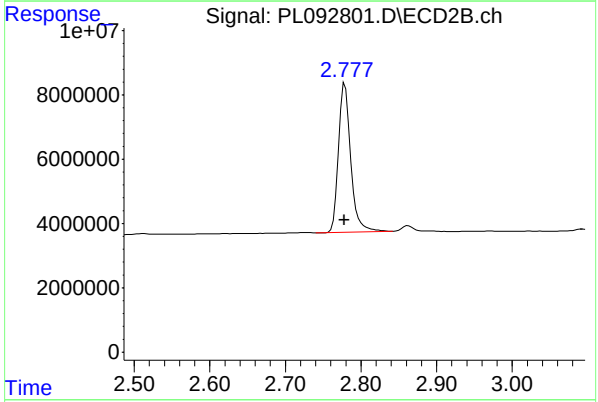




#1 Tetrachloro-m-xylene

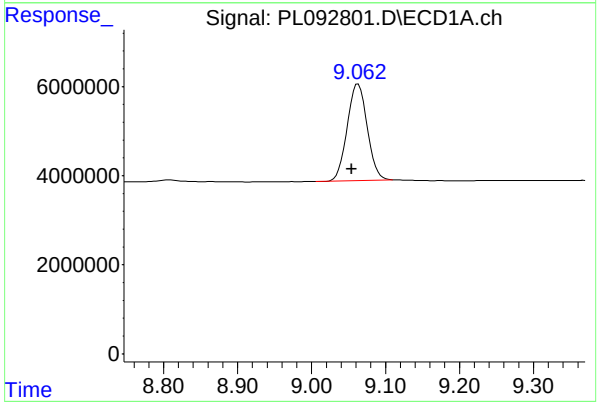
R.T.: 3.546 min
Delta R.T.: 0.006 min
Response: 48927386
Conc: 19.97 ng/ml

Instrument :
ECD_L
ClientSampleId :
PB164592BL



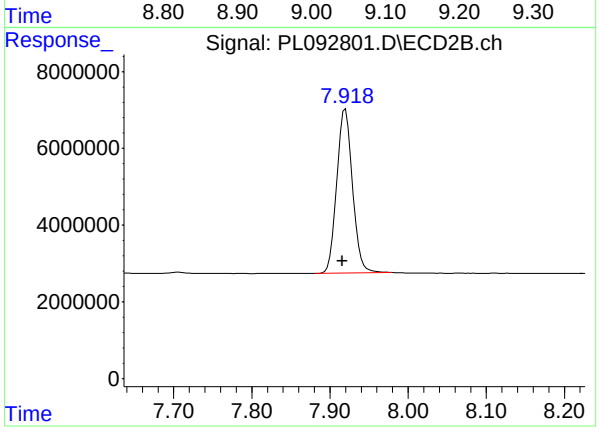
#1 Tetrachloro-m-xylene

R.T.: 2.779 min
Delta R.T.: 0.000 min
Response: 51903561
Conc: 19.07 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.063 min
Delta R.T.: 0.009 min
Response: 40833698
Conc: 21.22 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.920 min
Delta R.T.: 0.004 min
Response: 60045385
Conc: 22.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:01
Operator : AR\AJ
Sample : PB164592BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164592BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:42:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
		System Monitoring Compounds						
1)	SA	Tetrachlo...	3.542	2.778	47799689	49755007	19.508	18.284
28)	SA	Decachlor...	9.059	7.919	40043126	57970850	20.806	21.241
		Target Compounds						
2)	A	alpha-BHC	3.998	3.281	172.5E6	212.0E6	50.857	53.135
3)	MA	gamma-BHC...	4.331	3.611	163.7E6	203.9E6	50.212	52.842
4)	MA	Heptachlor	4.920	3.950	159.7E6	211.7E6	53.191	56.095
5)	MB	Aldrin	5.261	4.230	150.5E6	195.6E6	50.149	53.436
6)	B	beta-BHC	4.528	3.911	74690849	89003785	51.673	54.065
7)	B	delta-BHC	4.776	4.140	141.6E6	180.4E6	45.239	46.934
8)	B	Heptachlo...	5.688	4.733	140.6E6	184.6E6	50.918	55.256
9)	A	Endosulfan I	6.073	5.103	130.9E6	171.1E6	52.341	56.028
10)	B	gamma-Chl...	5.944	4.983	142.1E6	190.4E6	53.394	56.637
11)	B	alpha-Chl...	6.023	5.046	139.9E6	187.0E6	52.845	56.225
12)	B	4,4'-DDE	6.196	5.235	124.5E6	181.5E6	52.560	56.330
13)	MA	Dieldrin	6.348	5.367	138.3E6	190.0E6	52.478	56.886
14)	MA	Endrin	6.578	5.643	117.5E6	172.3E6	51.605	59.545
15)	B	Endosulfa...	6.797	5.938	124.0E6	163.4E6	52.002	57.667
16)	A	4,4'-DDD	6.713	5.791	101.5E6	142.3E6	52.888	57.151
17)	MA	4,4'-DDT	7.027	6.041	112.3E6	155.3E6	54.238	57.906
18)	B	Endrin al...	6.927	6.117	95507755	125.2E6	50.857	54.253
19)	B	Endosulfa...	7.162	6.340	111.1E6	150.8E6	51.175	55.905
20)	A	Methoxychlor	7.503	6.617	58726656	80022355	51.515	56.037
21)	B	Endrin ke...	7.647	6.846	124.8E6	172.5E6	51.509	56.205
22)		Mirex	8.120	7.026	89390608	124.4E6	45.108	47.683

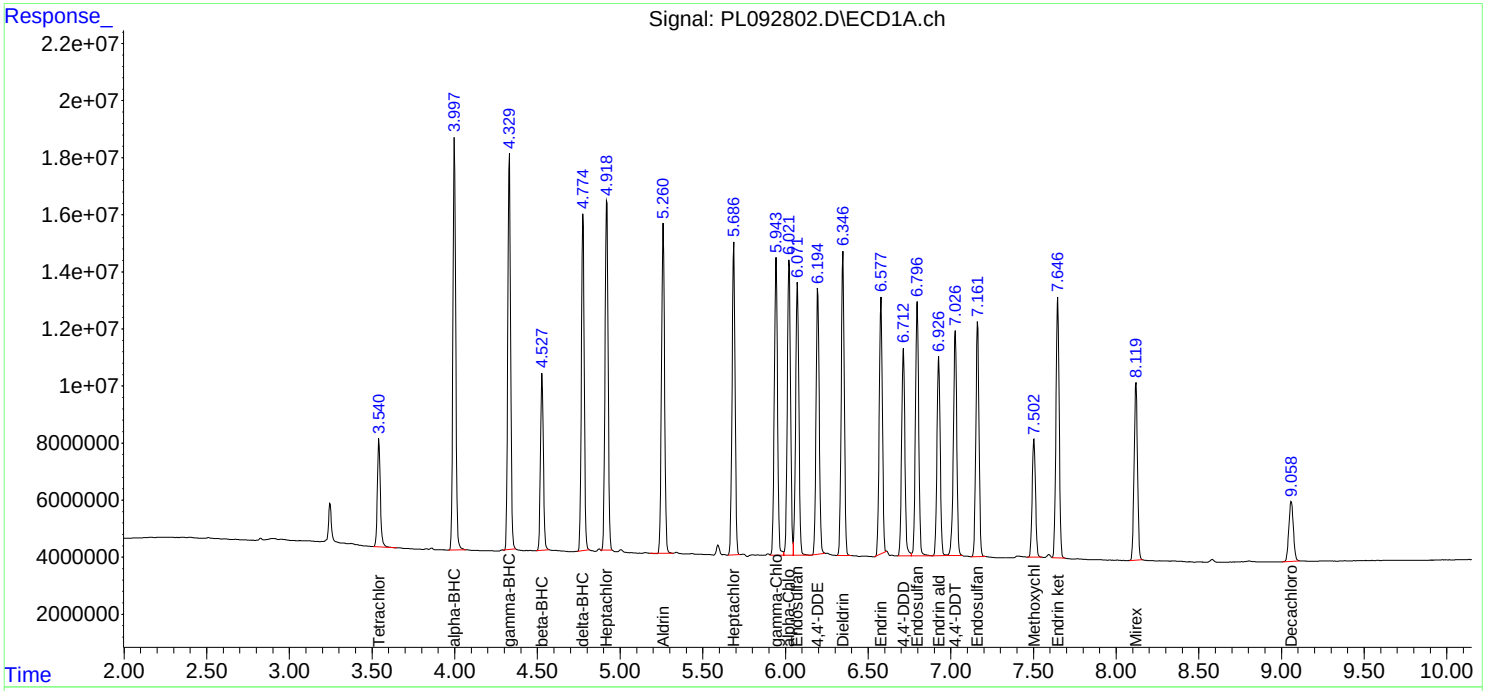
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

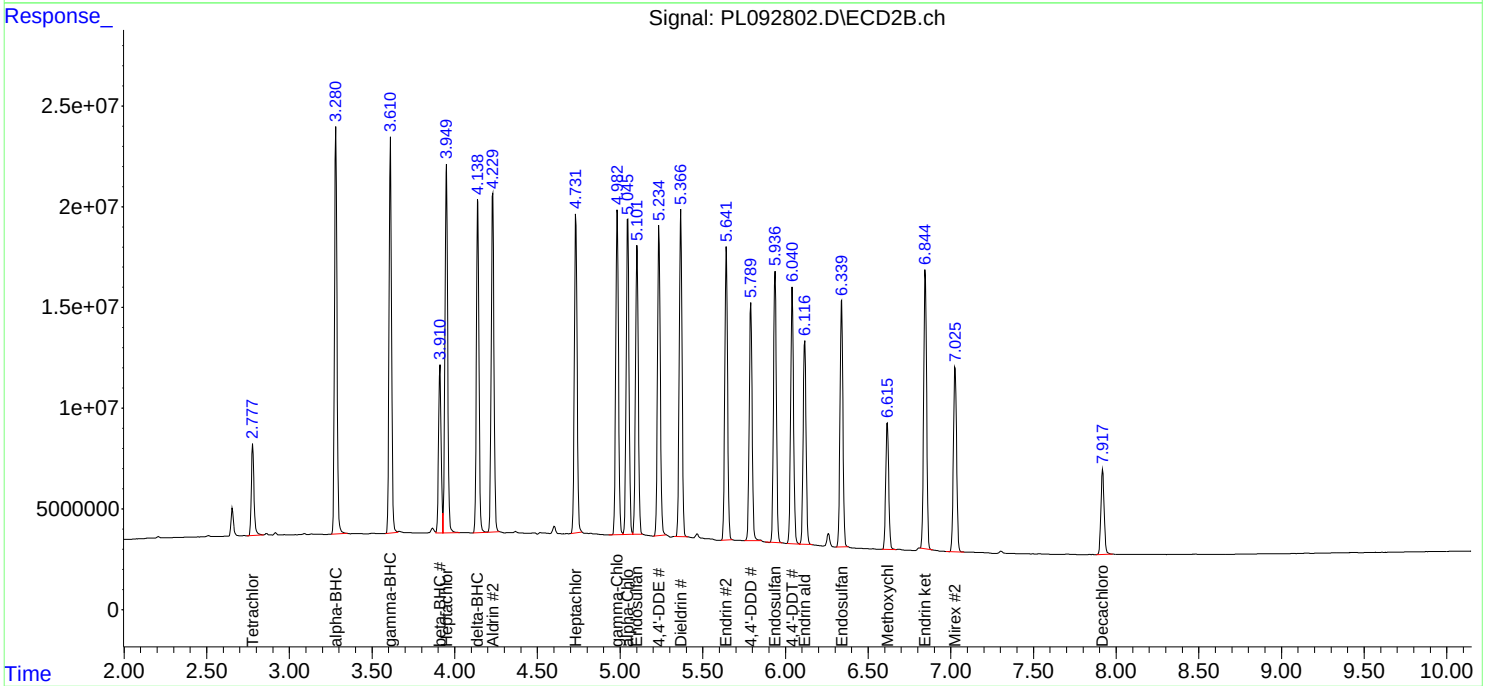
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 15:01
Operator : AR\AJ
Sample : PB164592BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
PB164592BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:42:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:52
Operator : AR\AJ
Sample : P4663-08MS
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.539	2.778	42253585	36435741	17.245m	13.390
28) SA	Decachlor...	9.058	7.918	27164528	32417946	14.115	11.878
	Target Compounds						
2) A	alpha-BHC	3.998	3.281	137.2E6	170.0E6	40.462	42.603
3) MA	gamma-BHC...	4.330	3.611	133.2E6	166.5E6	40.862	43.137
4) MA	Heptachlor	4.919	3.950	135.8E6	185.2E6	45.216	49.080
5) MB	Aldrin	5.260	4.230	129.6E6	172.4E6	43.178	47.090
6) B	beta-BHC	4.528	3.910	66730111	79793498	46.165	48.470
7) B	delta-BHC	4.774	4.140	39663803	44031080	12.673	11.457
8) B	Heptachlo...	5.687	4.733	119.8E6	156.1E6	43.382	46.723
9) A	Endosulfan I	6.072	5.102	110.0E6	146.2E6	43.968	47.881
10) B	gamma-Chl...	5.943	4.982	120.9E6	163.9E6	45.431	48.754
11) B	alpha-Chl...	6.022	5.046	118.4E6	160.7E6	44.694	48.304
12) B	4,4'-DDE	6.195	5.235	106.0E6	159.4E6	44.749	49.494
13) MA	Dieldrin	6.347	5.366	115.1E6	160.0E6	43.666	47.903
14) MA	Endrin	6.578	5.642	97714052	141.3E6	42.920	48.841
15) B	Endosulfa...	6.797	5.937	102.1E6	130.6E6	42.836	46.111
16) A	4,4'-DDD	6.713	5.790	85868689	112.1E6	44.734	45.019
17) MA	4,4'-DDT	7.027	6.040	90596804	122.7E6	43.772	45.729
18) B	Endrin al...	6.927	6.116	79957370	100.4E6	42.576	43.525
19) B	Endosulfa...	7.161	6.339	77215036	98888523	35.577	36.668
20) A	Methoxychlor	7.502	6.616	49567149	64956721	43.480	45.487
21) B	Endrin ke...	7.647	6.845	102.6E6	132.8E6	42.337	43.281
22)	Mirex	8.120	7.025	79479195	104.9E6	40.106	40.214

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

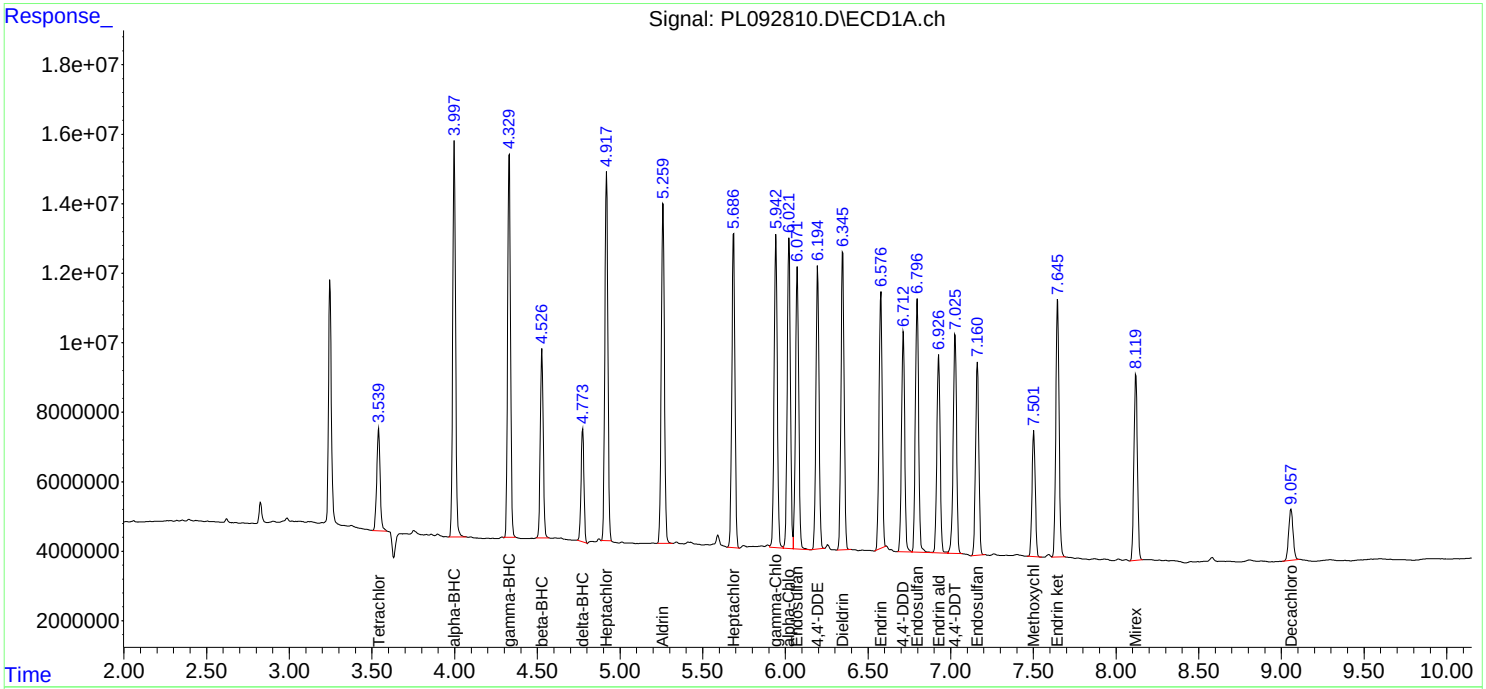
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 16:52
Operator : AR\AJ
Sample : P4663-08MS
Misc :
ALS Vial : 23 Sample Multiplier: 1

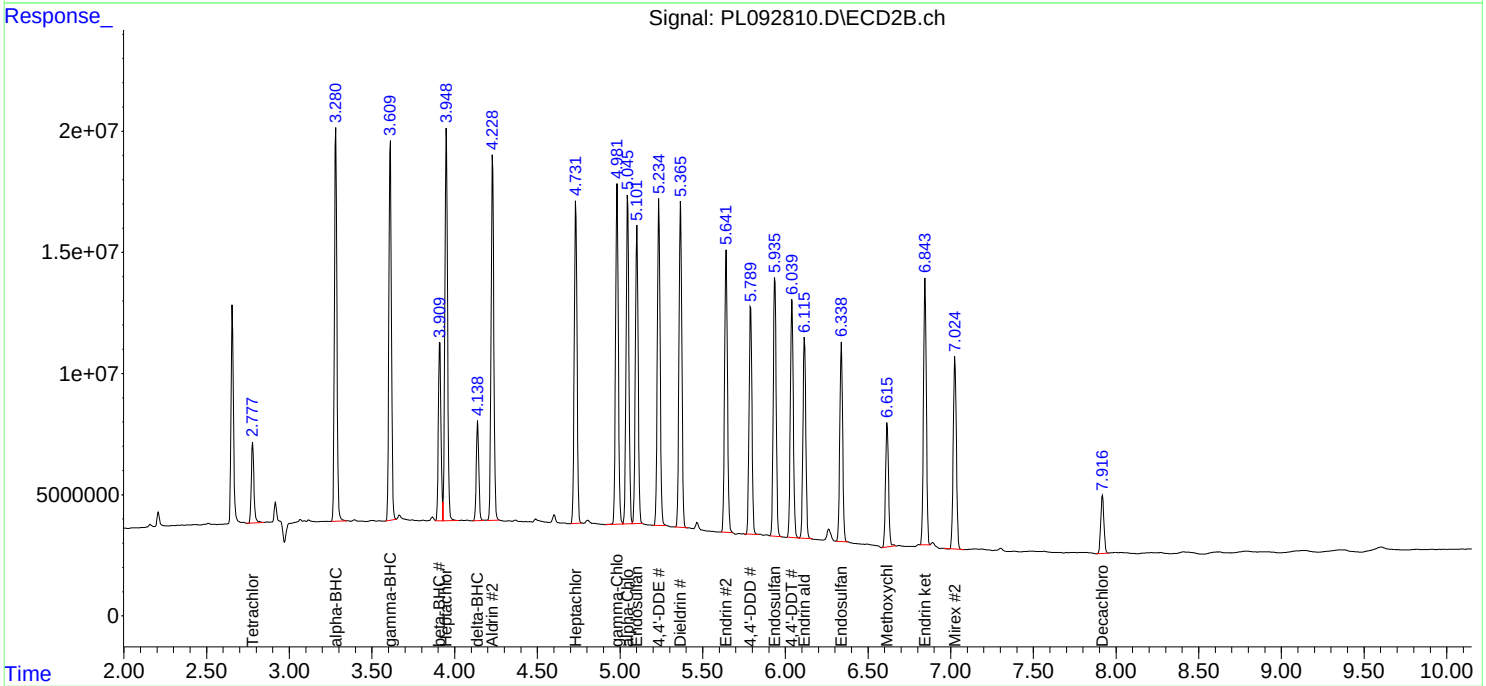
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024





Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:06
Operator : AR\AJ
Sample : P4663-08MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.540	2.779	42618757	36402105	17.394m	13.377
28) SA	Decachlor...	9.060	7.919	25915828	32893214	13.466	12.052
	Target Compounds						
2) A	alpha-BHC	3.998	3.281	138.6E6	170.0E6	40.880	42.608
3) MA	gamma-BHC...	4.331	3.611	134.5E6	167.2E6	41.251	43.319
4) MA	Heptachlor	4.919	3.951	137.7E6	185.0E6	45.848	49.011
5) MB	Aldrin	5.261	4.230	128.9E6	171.1E6	42.939	46.758
6) B	beta-BHC	4.529	3.911	67067170	80516982	46.398	48.909
7) B	delta-BHC	4.775	4.140	39635080	43965563	12.663	11.440
8) B	Heptachlo...	5.688	4.733	121.2E6	159.3E6	43.880	47.688
9) A	Endosulfan I	6.073	5.103	110.5E6	146.8E6	44.175	48.072
10) B	gamma-Chl...	5.944	4.983	119.7E6	164.9E6	44.978	49.063
11) B	alpha-Chl...	6.022	5.047	118.4E6	161.9E6	44.720	48.680
12) B	4,4'-DDE	6.196	5.236	109.6E6	159.2E6	46.257	49.431
13) MA	Dieldrin	6.348	5.368	116.6E6	159.9E6	44.238	47.857
14) MA	Endrin	6.578	5.643	98408904	145.2E6	43.225	50.181
15) B	Endosulfa...	6.798	5.938	104.1E6	134.4E6	43.654	47.453
16) A	4,4'-DDD	6.714	5.791	87911082	118.8E6	45.798	47.712
17) MA	4,4'-DDT	7.027	6.042	90449550	123.5E6	43.701	46.051
18) B	Endrin al...	6.928	6.117	79977347	100.4E6	42.587	43.522
19) B	Endosulfa...	7.162	6.340	78302732	101.1E6	36.079	37.479
20) A	Methoxychlor	7.503	6.617	50453470	67183731	44.257	47.046
21) B	Endrin ke...	7.648	6.846	105.1E6	133.9E6	43.371	43.617
22)	Mirex	8.120	7.026	80433689	110.8E6	40.588	42.466

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

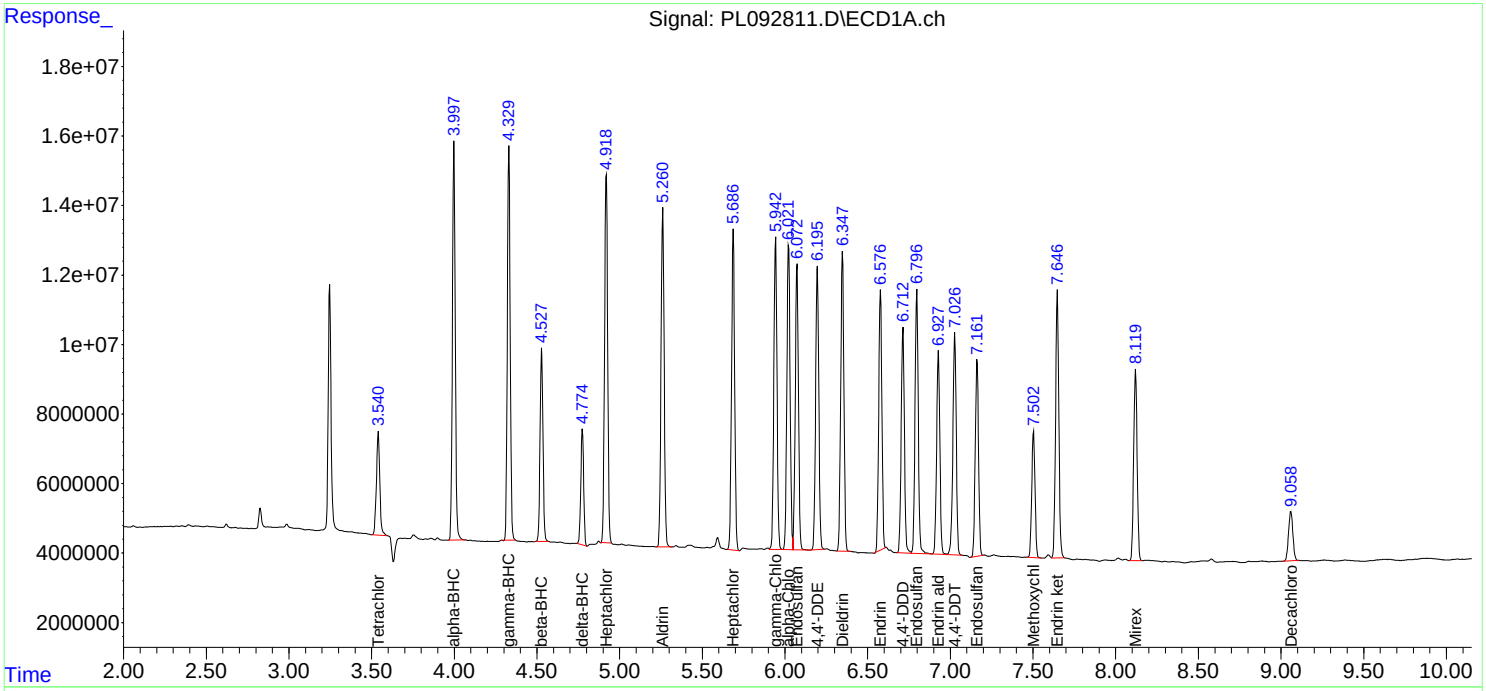
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_L\Data\PL110124\
Data File : PL092811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Nov 2024 17:06
Operator : AR\AJ
Sample : P4663-08MSD
Misc :
ALS Vial : 24 Sample Multiplier: 1

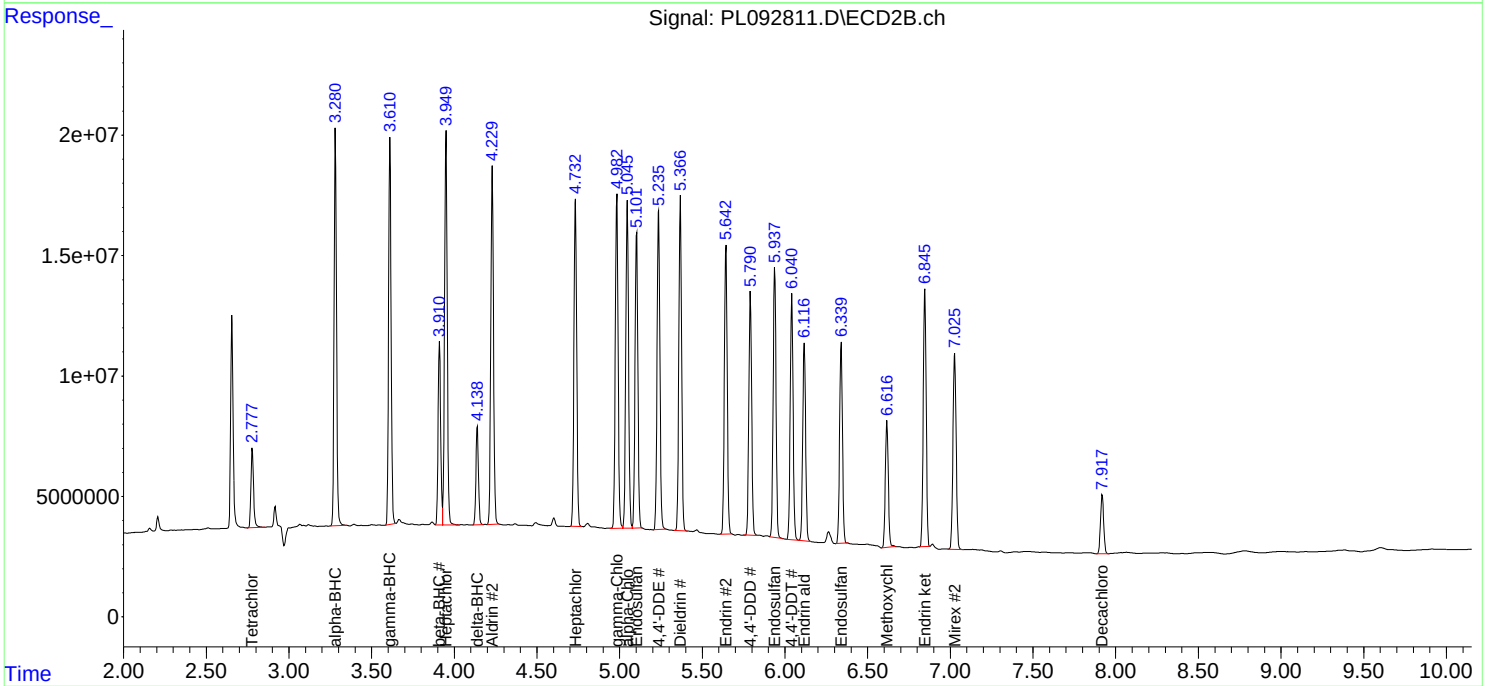
Instrument :
ECD_L
ClientSampleId :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Abdul Mirza 11/04/2024
Supervised By :Ankita Jodhani 11/04/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 04 01:45:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_L\methods\PL102824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 28 18:58:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





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

Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092653.D	4,4"-DDD	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PEM	PL092653.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:09 AM	Ankita	10/29/2024 10:01:26	Peak Integrated by Software
PSTDICC005	PL092659.D	delta-BHC	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PSTDICC005	PL092659.D	Heptachlor epoxide	Abdul	10/29/2024 9:08:13 AM	Ankita	10/29/2024 10:01:28	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDD #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	4,4"-DDE #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PEM	PL092674.D	Endrin ketone #2	Abdul	10/29/2024 9:08:21 AM	Ankita	10/29/2024 10:01:31	Peak Integrated by Software
PSTDCCC050	PL092675.D	Aldrin	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Dieldrin #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	gamma-BHC (Lindane)	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
PSTDCCC050	PL092675.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:08:25 AM	Ankita	10/29/2024 10:01:33	Peak Integrated by Software
I.BLK	PL092690.D	Tetrachloro-m-xylene #2	Abdul	10/29/2024 9:09:28 AM	Ankita	10/29/2024 10:02:09	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL102824	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PL092691.D	Endosulfan II #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	gamma-Chlordane	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Heptachlor epoxide	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software
PSTDCCC050	PL092691.D	Mirex #2	Abdul	10/29/2024 9:09:32 AM	Ankita	10/29/2024 10:02:10	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL110124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PL092788.D	4,4"-DDD	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
PEM	PL092788.D	Endrin aldehyde	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
PEM	PL092788.D	Endrin aldehyde #2	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
PEM	PL092788.D	Endrin ketone #2	Abdul	11/1/2024 5:37:31 PM	Ankita	11/4/2024 10:11:13	Peak Integrated by Software
P4663-02	PL092806.D	4,4"-DDT	Abdul	11/4/2024 7:35:09 AM	Ankita	11/4/2024 10:11:25	Peak Integrated by Software
P4663-02	PL092806.D	4,4"-DDT #2	Abdul	11/4/2024 7:35:09 AM	Ankita	11/4/2024 10:11:25	Peak Integrated by Software
P4663-02	PL092806.D	alpha-Chlordane #2	Abdul	11/4/2024 7:35:09 AM	Ankita	11/4/2024 10:11:25	Peak Integrated by Software
P4663-04	PL092807.D	4,4"-DDE	Abdul	11/4/2024 7:35:12 AM	Ankita	11/4/2024 10:11:26	Peak Integrated by Software
P4663-04	PL092807.D	4,4"-DDE #2	Abdul	11/4/2024 7:35:12 AM	Ankita	11/4/2024 10:11:26	Peak Integrated by Software
P4663-04	PL092807.D	Decachlorobiphenyl	Abdul	11/4/2024 7:35:12 AM	Ankita	11/4/2024 10:11:26	Peak Integrated by Software
P4663-08	PL092809.D	Decachlorobiphenyl #2	Abdul	11/4/2024 7:35:16 AM	Ankita	11/4/2024 10:11:28	Peak Integrated by Software
P4663-08	PL092809.D	Tetrachloro-m-xylene	Abdul	11/4/2024 7:35:16 AM	Ankita	11/4/2024 10:11:28	Peak Integrated by Software
P4663-08MS	PL092810.D	Tetrachloro-m-xylene	Abdul	11/4/2024 7:35:20 AM	Ankita	11/4/2024 10:11:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	PL110124	Instrument	ECD_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4663-08MSD	PL092811.D	Tetrachloro-m-xylene	Abdul	11/4/2024 7:35:25 AM	Ankita	11/4/2024 10:11:32	Peak Integrated by Software

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092651.D	28 Oct 2024 13:41	AR\AJ	Ok
2	I.BLK	PL092652.D	28 Oct 2024 13:55	AR\AJ	Ok
3	PEM	PL092653.D	28 Oct 2024 14:16	AR\AJ	Ok,M
4	RESCHK	PL092654.D	28 Oct 2024 14:29	AR\AJ	Ok
5	PSTDICC100	PL092655.D	28 Oct 2024 14:43	AR\AJ	Ok
6	PSTDICC075	PL092656.D	28 Oct 2024 14:56	AR\AJ	Ok
7	PSTDICC050	PL092657.D	28 Oct 2024 15:09	AR\AJ	Ok
8	PSTDICC025	PL092658.D	28 Oct 2024 15:23	AR\AJ	Ok
9	PSTDICC005	PL092659.D	28 Oct 2024 15:36	AR\AJ	Ok,M
10	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49	AR\AJ	Ok
11	PCHLORICC750	PL092661.D	28 Oct 2024 16:03	AR\AJ	Ok
12	PCHLORICC500	PL092662.D	28 Oct 2024 16:16	AR\AJ	Ok
13	PCHLORICC250	PL092663.D	28 Oct 2024 16:30	AR\AJ	Ok
14	PCHLORICC050	PL092664.D	28 Oct 2024 16:43	AR\AJ	Ok
15	PTOXICC1000	PL092665.D	28 Oct 2024 16:56	AR\AJ	Ok
16	PTOXICC750	PL092666.D	28 Oct 2024 17:10	AR\AJ	Ok
17	PTOXICC500	PL092667.D	28 Oct 2024 17:23	AR\AJ	Ok
18	PTOXICC250	PL092668.D	28 Oct 2024 17:37	AR\AJ	Ok
19	PTOXICC100	PL092669.D	28 Oct 2024 17:50	AR\AJ	Ok,M
20	PSTDICV050	PL092670.D	28 Oct 2024 18:03	AR\AJ	Ok
21	PCHLORICV500	PL092671.D	28 Oct 2024 18:30	AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PL092672.D	28 Oct 2024 18:57	AR\AJ	Ok
23	I.BLK	PL092673.D	28 Oct 2024 19:24	AR\AJ	Ok
24	PEM	PL092674.D	28 Oct 2024 19:37	AR\AJ	Ok,M
25	PSTDCCC050	PL092675.D	28 Oct 2024 19:51	AR\AJ	Ok,M
26	PB164460BL	PL092676.D	28 Oct 2024 20:04	AR\AJ	Ok,M
27	PB164460BS	PL092677.D	28 Oct 2024 20:17	AR\AJ	Ok,M
28	P4575-01	PL092678.D	28 Oct 2024 20:31	AR\AJ	Ok,M
29	P4566-01	PL092679.D	28 Oct 2024 20:44	AR\AJ	Ok,M
30	P4567-01	PL092680.D	28 Oct 2024 20:57	AR\AJ	Ok,M
31	P4567-05	PL092681.D	28 Oct 2024 21:11	AR\AJ	Ok
32	P4567-09	PL092682.D	28 Oct 2024 21:24	AR\AJ	Ok,M
33	P4574-01	PL092683.D	28 Oct 2024 21:38	AR\AJ	Ok,M
34	P4574-04	PL092684.D	28 Oct 2024 21:51	AR\AJ	Ok,M
35	P4577-01	PL092685.D	28 Oct 2024 22:04	AR\AJ	Ok,M
36	P4561-01	PL092686.D	28 Oct 2024 22:18	AR\AJ	Ok,M
37	P4561-01MS	PL092687.D	28 Oct 2024 22:31	AR\AJ	Ok,M
38	P4561-01MSD	PL092688.D	28 Oct 2024 22:44	AR\AJ	Ok,M
39	P4561-05	PL092689.D	28 Oct 2024 22:58	AR\AJ	Ok,M
40	I.BLK	PL092690.D	28 Oct 2024 23:11	AR\AJ	Ok,M
41	PSTDCCC050	PL092691.D	29 Oct 2024 00:32	AR\AJ	Ok,M

M : Manual Integration

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL110124

Review By	Abdul	Review On	11/1/2024 5:37:46 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
SubDirectory	PL110124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PL092786.D	01 Nov 2024 08:37	AR\AJ	Ok
2	I.BLK	PL092787.D	01 Nov 2024 08:51	AR\AJ	Ok
3	PEM	PL092788.D	01 Nov 2024 11:43	AR\AJ	Ok,M
4	PSTDCCC050	PL092789.D	01 Nov 2024 11:56	AR\AJ	Ok
5	P4617-04	PL092790.D	01 Nov 2024 12:10	AR\AJ	Ok
6	P4617-04MS	PL092791.D	01 Nov 2024 12:24	AR\AJ	Ok,M
7	P4617-04MSD	PL092792.D	01 Nov 2024 12:38	AR\AJ	Ok,M
8	PB164579BL	PL092793.D	01 Nov 2024 12:52	AR\AJ	Ok
9	PB164579BS	PL092794.D	01 Nov 2024 13:05	AR\AJ	Ok
10	PB164522TB	PL092795.D	01 Nov 2024 13:19	AR\AJ	Ok
11	P4495-20	PL092796.D	01 Nov 2024 13:33	AR\AJ	Dilution
12	P4495-20DL	PL092797.D	01 Nov 2024 13:47	AR\AJ	Dilution
13	P4495-20DL2	PL092798.D	01 Nov 2024 14:01	AR\AJ	Ok,M
14	I.BLK	PL092799.D	01 Nov 2024 14:15	AR\AJ	Ok
15	PSTDCCC050	PL092800.D	01 Nov 2024 14:29	AR\AJ	Ok
16	PB164592BL	PL092801.D	01 Nov 2024 14:47	AR\AJ	Ok
17	PB164592BS	PL092802.D	01 Nov 2024 15:01	AR\AJ	Ok
18	PB164579BS	PL092803.D	01 Nov 2024 15:14	AR\AJ	Ok,M
19	P4645-01	PL092804.D	01 Nov 2024 15:29	AR\AJ	Ok,M
20	P4659-01	PL092805.D	01 Nov 2024 15:43	AR\AJ	Ok,M
21	P4663-02	PL092806.D	01 Nov 2024 15:56	AR\AJ	Ok,M

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Fax : 908 789 8922

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL110124

Review By	Abdul	Review On	11/1/2024 5:37:46 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
SubDirectory	PL110124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4663-04	PL092807.D	01 Nov 2024 16:10	AR\AJ	Ok,M
23	P4663-06	PL092808.D	01 Nov 2024 16:24	AR\AJ	Ok
24	P4663-08	PL092809.D	01 Nov 2024 16:38	AR\AJ	Ok,M
25	P4663-08MS	PL092810.D	01 Nov 2024 16:52	AR\AJ	Ok,M
26	P4663-08MSD	PL092811.D	01 Nov 2024 17:06	AR\AJ	Ok,M
27	I.BLK	PL092812.D	01 Nov 2024 17:24	AR\AJ	Ok
28	PSTDCCC050	PL092813.D	01 Nov 2024 17:38	AR\AJ	Ok

M : Manual Integration

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

Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092651.D	28 Oct 2024 13:41		AR\AJ	Ok
2	I.BLK	I.BLK	PL092652.D	28 Oct 2024 13:55		AR\AJ	Ok
3	PEM	PEM	PL092653.D	28 Oct 2024 14:16		AR\AJ	Ok,M
4	RESCHK	RESCHK	PL092654.D	28 Oct 2024 14:29		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PL092655.D	28 Oct 2024 14:43		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PL092656.D	28 Oct 2024 14:56		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PL092657.D	28 Oct 2024 15:09		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PL092658.D	28 Oct 2024 15:23		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PL092659.D	28 Oct 2024 15:36		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PL092660.D	28 Oct 2024 15:49		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PL092661.D	28 Oct 2024 16:03		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PL092662.D	28 Oct 2024 16:16		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PL092663.D	28 Oct 2024 16:30		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PL092664.D	28 Oct 2024 16:43		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PL092665.D	28 Oct 2024 16:56		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PL092666.D	28 Oct 2024 17:10		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PL092667.D	28 Oct 2024 17:23		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PL092668.D	28 Oct 2024 17:37		AR\AJ	Ok

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PL092669.D	28 Oct 2024 17:50		AR\AJ	Ok,M
20	PSTDICV050	ICVPL102824	PL092670.D	28 Oct 2024 18:03		AR\AJ	Ok
21	PCHLORICV500	ICVPL102824CHLOR	PL092671.D	28 Oct 2024 18:30		AR\AJ	Ok
22	PTOXICV500	ICVPL102824TOX	PL092672.D	28 Oct 2024 18:57		AR\AJ	Ok
23	I.BLK	I.BLK	PL092673.D	28 Oct 2024 19:24		AR\AJ	Ok
24	PEM	PEM	PL092674.D	28 Oct 2024 19:37		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PL092675.D	28 Oct 2024 19:51		AR\AJ	Ok,M
26	PB164460BL	PB164460BL	PL092676.D	28 Oct 2024 20:04		AR\AJ	Ok,M
27	PB164460BS	PB164460BS	PL092677.D	28 Oct 2024 20:17		AR\AJ	Ok,M
28	P4575-01	PL-02-102424	PL092678.D	28 Oct 2024 20:31		AR\AJ	Ok,M
29	P4566-01	HD-01-102524	PL092679.D	28 Oct 2024 20:44		AR\AJ	Ok,M
30	P4567-01	WC-1	PL092680.D	28 Oct 2024 20:57		AR\AJ	Ok,M
31	P4567-05	WC-2	PL092681.D	28 Oct 2024 21:11		AR\AJ	Ok
32	P4567-09	WC-3	PL092682.D	28 Oct 2024 21:24		AR\AJ	Ok,M
33	P4574-01	GRAVEL-1	PL092683.D	28 Oct 2024 21:38		AR\AJ	Ok,M
34	P4574-04	GRAVEL-2	PL092684.D	28 Oct 2024 21:51		AR\AJ	Ok,M
35	P4577-01	TR-05-102524	PL092685.D	28 Oct 2024 22:04		AR\AJ	Ok,M
36	P4561-01	BP-F-19	PL092686.D	28 Oct 2024 22:18		AR\AJ	Ok,M
37	P4561-01MS	BP-F-19MS	PL092687.D	28 Oct 2024 22:31		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL102824

Review By	Abdul	Review On	10/29/2024 9:09:59 AM		
Supervise By	Ankita	Supervise On	10/29/2024 10:02:30 AM		
SubDirectory	PL102824	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4561-01MSD	BP-F-19MSD	PL092688.D	28 Oct 2024 22:44		AR\AJ	Ok,M
39	P4561-05	BP-F-18	PL092689.D	28 Oct 2024 22:58		AR\AJ	Ok,M
40	I.BLK	I.BLK	PL092690.D	28 Oct 2024 23:11		AR\AJ	Ok,M
41	PSTDCCC050	PSTDCCC050	PL092691.D	29 Oct 2024 00:32		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL110124

Review By	Abdul	Review On	11/1/2024 5:37:46 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
SubDirectory	PL110124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PL092786.D	01 Nov 2024 08:37		AR\AJ	Ok
2	I.BLK	I.BLK	PL092787.D	01 Nov 2024 08:51		AR\AJ	Ok
3	PEM	PEM	PL092788.D	01 Nov 2024 11:43		AR\AJ	Ok,M
4	PSTDCCC050	PSTDCCC050	PL092789.D	01 Nov 2024 11:56		AR\AJ	Ok
5	P4617-04	CONCRETE-PILE	PL092790.D	01 Nov 2024 12:10		AR\AJ	Ok
6	P4617-04MS	CONCRETE-PILEMS	PL092791.D	01 Nov 2024 12:24	TCMX high in 1st column	AR\AJ	Ok,M
7	P4617-04MSD	CONCRETE-PILEMSD	PL092792.D	01 Nov 2024 12:38		AR\AJ	Ok,M
8	PB164579BL	PB164579BL	PL092793.D	01 Nov 2024 12:52		AR\AJ	Ok
9	PB164579BS	PB164579BS	PL092794.D	01 Nov 2024 13:05		AR\AJ	Ok
10	PB164522TB	PB164522TB	PL092795.D	01 Nov 2024 13:19		AR\AJ	Ok
11	P4495-20	PT-PEST-SOIL	PL092796.D	01 Nov 2024 13:33	Need dilution	AR\AJ	Dilution
12	P4495-20DL	PT-PEST-SOILDL	PL092797.D	01 Nov 2024 13:47	Need dilution	AR\AJ	Dilution
13	P4495-20DL2	PT-PEST-SOILDL2	PL092798.D	01 Nov 2024 14:01		AR\AJ	Ok,M
14	I.BLK	I.BLK	PL092799.D	01 Nov 2024 14:15		AR\AJ	Ok
15	PSTDCCC050	PSTDCCC050	PL092800.D	01 Nov 2024 14:29		AR\AJ	Ok
16	PB164592BL	PB164592BL	PL092801.D	01 Nov 2024 14:47		AR\AJ	Ok
17	PB164592BS	PB164592BS	PL092802.D	01 Nov 2024 15:01		AR\AJ	Ok
18	PB164579BS	PB164579BS	PL092803.D	01 Nov 2024 15:14		AR\AJ	Ok,M

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Instrument ID: ECD_L

Daily Analysis Runlog For Sequence/QCBatch ID # PL110124

Review By	Abdul	Review On	11/1/2024 5:37:46 PM		
Supervise By	Ankita	Supervise On	11/4/2024 10:11:38 AM		
SubDirectory	PL110124	HP Acquire Method		HP Processing Method	pl102824 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4645-01	Z-02-WC	PL092804.D	01 Nov 2024 15:29		AR\AJ	Ok,M
20	P4659-01	MH-2	PL092805.D	01 Nov 2024 15:43		AR\AJ	Ok,M
21	P4663-02	TENNANT-PAD-2-3-ST	PL092806.D	01 Nov 2024 15:56		AR\AJ	Ok,M
22	P4663-04	RES-BUILDING-PAD-N	PL092807.D	01 Nov 2024 16:10		AR\AJ	Ok,M
23	P4663-06	RES-BUILDING-PAD-N	PL092808.D	01 Nov 2024 16:24		AR\AJ	Ok
24	P4663-08	RES-BUILDING-PAD-N	PL092809.D	01 Nov 2024 16:38		AR\AJ	Ok,M
25	P4663-08MS	RES-BUILDING-PAD-N	PL092810.D	01 Nov 2024 16:52	Comp#7 recovery fail	AR\AJ	Ok,M
26	P4663-08MSD	RES-BUILDING-PAD-N	PL092811.D	01 Nov 2024 17:06	Comp#7 recovery fail	AR\AJ	Ok,M
27	I.BLK	I.BLK	PL092812.D	01 Nov 2024 17:24		AR\AJ	Ok
28	PSTDCCC050	PSTDCCC050	PL092813.D	01 Nov 2024 17:38		AR\AJ	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164592

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	Florisil			**Extraction Start Date :**	11/01/2024
Matrix :	Solid			**Extraction Start Time :**	09:12
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	11/01/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	14:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23638
Surrogate	1.0ML	200 PPB	PP23858
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Hexane/Acetone/1:1	N/A	EP2539
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Hexane	N/A	E3819
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721. P 4663 All samples Added in batch at 11:00.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/01/24	RR (Ext Lab)	T.P. PEST/PCB
14:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164592

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164592BL	PBLK592	Pesticide-TCL	30.01	N/A	ritesh	RUPESH	10			U1-1
PB164592BS	PLCS592	Pesticide-TCL	30.03	N/A	ritesh	RUPESH	10			2
P4645-01	Z-02-WC	Pesticide-TCL	30.04	N/A	ritesh	RUPESH	10	D		3
P4659-01	MH-2	Pesticide-TCL	30.09	N/A	ritesh	RUPESH	10	D		4
P4663-02	TENNANT-PAD-2-3-STOCKPILE	Pesticide-TCL	30.02	N/A	ritesh	RUPESH	10	D		5
P4663-04	RES-BUILDING-PAD-NO-11	Pesticide-TCL	30.08	N/A	ritesh	RUPESH	10	D		6
P4663-06	RES-BUILDING-PAD-NO-3	Pesticide-TCL	30.10	N/A	ritesh	RUPESH	10	D		U5-1
P4663-08	RES-BUILDING-PAD-NO-2	Pesticide-TCL	30.06	N/A	ritesh	RUPESH	10	D		2
P4663-08MS	RES-BUILDING-PAD-NO-2 MS	Pesticide-TCL	30.02	N/A	ritesh	RUPESH	10	D		3
P4663-08MSD	RES-BUILDING-PAD-NO-2 MSD	Pesticide-TCL	30.04	N/A	ritesh	RUPESH	10	D		4

* **Extracts relinquished on the same date as received.**

11/01/24

164592
11:00 dlw

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663 **WorkList ID :** 185017 **Department :** Extraction **Date :** 11-01-2024 11:00:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-04	RES-BUILDING-PAD-NO-11	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-04	RES-BUILDING-PAD-NO-11	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-06	RES-BUILDING-PAD-NO-3	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-06	RES-BUILDING-PAD-NO-3	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-08	RES-BUILDING-PAD-NO-2	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-08	RES-BUILDING-PAD-NO-2	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E

Date/Time 11/01/24 11:00

Raw Sample Received by: RJ (Eurofins)

Raw Sample Relinquished by: [signature]

Date/Time 11/01/24 11:15

Raw Sample Received by: [signature]

Raw Sample Relinquished by: RJ (Eurofins)

16US82
9:12

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4645PEST **WorkList ID :** 185005 **Department :** Extraction **Date :** 11-01-2024 08:35:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4645-01	Z-02-WC	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	K63	10/31/2024	8081B
P4659-01	MH-2	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	K61	10/31/2024	8081B

Date/Time 11/01/24 9:10
Raw Sample Received by: RJ (Set lab)
Raw Sample Relinquished by: JD CSM

Date/Time 11/01/24 9:25
Raw Sample Received by: JD CSM
Raw Sample Relinquished by: RJ (Set lab)

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

LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	