



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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	LOD-LOQ Study	Date Received:	
Client Sample ID:	PB158548BL	SDG No.:	P1187
Lab Sample ID:	PB158548BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/24 08:00	02/06/24 3:04	PB158548

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.00	U	1	0.24	1.00	mg/kg	FE046599.D
Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	1	0.14	0.67	mg/kg	FE046599.D
Aliphatic C16-C21	Aliphatic C16-C21	1.00	U	1	0.21	1.00	mg/kg	FE046599.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.46	1.33	mg/kg	FE046599.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.02	2.00	mg/kg	FE046599.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		2.07	5.99	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control 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

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Analytical Method:	NJEPH	% Solid:	100
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Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/24 08:00	02/13/24 10:59	PB158548

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.00	U	1	0.24	1.00	mg/kg	FG013501.D
Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	1	0.14	0.67	mg/kg	FG013501.D
Aliphatic C16-C21	Aliphatic C16-C21	1.00	U	1	0.21	1.00	mg/kg	FG013501.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.46	1.33	mg/kg	FG013501.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.02	2.00	mg/kg	FG013501.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		2.07	5.99	mg/kg	

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Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/24 08:00	02/01/24 14:43	PB158548

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.67	U	1	0.15	0.67	mg/kg	FD047146.D
Aromatic C12-C16	Aromatic C12-C16	1.00	U	1	0.15	1.00	mg/kg	FD047146.D
Aromatic C16-C21	Aromatic C16-C21	1.67	U	1	0.30	1.67	mg/kg	FD047146.D
Aromatic C21-C36	Aromatic C21-C36	2.66	U	1	0.39	2.66	mg/kg	FD047146.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.00	U		0.99	6.00	mg/kg	
Total EPH	Total EPH	6.00	U		0.99	6.00	mg/kg	

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Analytical Method:	NJEPH	% Solid:	100
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Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/24 08:00	02/06/24 3:04	PB158548

Datafile

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Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	1	0.14	0.67	mg/kg	FE046599.D
Aliphatic C16-C21	Aliphatic C16-C21	1.00	U	1	0.21	1.00	mg/kg	FE046599.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.46	1.33	mg/kg	FE046599.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.02	2.00	mg/kg	FE046599.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		2.07	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	
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Analytical Method:	NJEPH	% Solid:	100
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Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/24 08:00	02/01/24 14:43	PB158548

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TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.67	U	1	0.15	0.67	mg/kg	FD047146.D
Aromatic C12-C16	Aromatic C12-C16	1.00	U	1	0.15	1.00	mg/kg	FD047146.D
Aromatic C16-C21	Aromatic C16-C21	1.67	U	1	0.30	1.67	mg/kg	FD047146.D
Aromatic C21-C36	Aromatic C21-C36	2.66	U	1	0.39	2.66	mg/kg	FD047146.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.00	U		0.99	6.00	mg/kg	
Total EPH	Total EPH	6.00	U		0.99	6.00	mg/kg	

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Lab Sample ID:	PB158548BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/24 08:00	02/01/24 12:16	PB158548

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.00	U	1	0.24	1.00	mg/kg	FC065580.D
Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	1	0.14	0.67	mg/kg	FC065580.D
Aliphatic C16-C21	Aliphatic C16-C21	1.00	U	1	0.21	1.00	mg/kg	FC065580.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.46	1.33	mg/kg	FC065580.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.02	2.00	mg/kg	FC065580.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		2.07	5.99	mg/kg	

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Lab Sample ID:	PB158548BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC065580.D	1	01/31/24	02/01/24	PB158548

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	1.00	U	0.24	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	0.14	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	1.00	U	0.21	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	0.46	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1.02	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.3		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	1.13		40 - 140	2%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB158548BL	Acq On:	01 Feb 2024 12:16
Client Sample ID:	PB158548BL	Operator:	YP/AJ
Data file:	FC065580.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.185	6.461	0	0	300	ug/ml
Aliphatic C12-C16	6.462	9.845	0	0	200	ug/ml
Aliphatic C16-C21	9.846	13.191	0	0	300	ug/ml
Aliphatic C21-C28	13.192	16.832	0	0	400	ug/ml
Aliphatic C28-C40	16.833	21.647	0	0	600	ug/ml
Aliphatic EPH	3.185	21.647	0	0		ug/ml
ortho-Terphenyl (SURR)	11.497	11.497	206239	1.13		ug/ml
1-chlorooctadecane (SURR)	12.925	12.925	5030840	37.32		ug/ml
Aliphatic C9-C28	3.185	16.832	0	0	1200	ug/ml