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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/19/24
Project:	LOD-LOQ Study	Date Received:	01/19/24
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2024	SDG No.:	P1187
Lab Sample ID:	P1187-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.05 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	02/06/24 1:33	PB158548

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C12-C16	Aliphatic C12-C16	0.29	J	1	0.14	0.67	mg/kg	FE046596.D
Aliphatic C16-C21	Aliphatic C16-C21	0.82	J	1	0.21	1.00	mg/kg	FE046597.D
Aliphatic C21-C28	Aliphatic C21-C28	1.17	J	1	0.46	1.33	mg/kg	FE046597.D
Aliphatic C28-C40	Aliphatic C28-C40	1.88	J	1	1.02	2.00	mg/kg	FE046597.D
Total AliphaticEPH	Total AliphaticEPH	4.16	J		1.83	4.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	4.16	J		1.83	4.99	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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Lab Sample ID:	P1187-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.05 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	02/13/24 13:15	PB158548

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.47	J	1	0.24	1.00	mg/kg	FG013504.D
Aliphatic C12-C16	Aliphatic C12-C16	0.35	J	1	0.14	0.67	mg/kg	FG013504.D
Aliphatic C16-C21	Aliphatic C16-C21	0.63	J	1	0.21	1.00	mg/kg	FG013504.D
Aliphatic C21-C28	Aliphatic C21-C28	0.97	J	1	0.46	1.33	mg/kg	FG013504.D
Aliphatic C28-C40	Aliphatic C28-C40	1.66	J	1	1.02	2.00	mg/kg	FG013504.D
Total AliphaticEPH	Total AliphaticEPH	4.08	J		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	4.08	J		2.07	5.99	mg/kg	

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Client Sample ID:	LOD-MDL-SOIL-01-QT1-2024	SDG No.:	P1187
Lab Sample ID:	P1187-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.05 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	02/06/24 1:33	PB158548

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	J	1	0.24	1.00	mg/kg	FE046596.D
Aliphatic C12-C16	Aliphatic C12-C16	0.29	J	1	0.14	0.67	mg/kg	FE046596.D
Aliphatic C16-C21	Aliphatic C16-C21	0.51	J	1	0.21	1.00	mg/kg	FE046596.D
Aliphatic C21-C28	Aliphatic C21-C28	0.77	J	1	0.46	1.33	mg/kg	FE046596.D
Aliphatic C28-C40	Aliphatic C28-C40	1.42	J	1	1.02	2.00	mg/kg	FE046596.D
Total AliphaticEPH	Total AliphaticEPH	3.37	J		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.37	J		2.07	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	01/19/24
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2024	SDG No.:	P1187
Lab Sample ID:	P1187-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.05 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	02/06/24 1:33	PB158548

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	J	1	0.24	1.00	mg/kg	FE046596.D
Aliphatic C12-C16	Aliphatic C12-C16	0.29	J	1	0.14	0.67	mg/kg	FE046596.D
Aliphatic C16-C21	Aliphatic C16-C21	0.51	J	1	0.21	1.00	mg/kg	FE046596.D
Aliphatic C21-C28	Aliphatic C21-C28	0.77	J	1	0.46	1.33	mg/kg	FE046596.D
Aliphatic C28-C40	Aliphatic C28-C40	1.42	J	1	1.02	2.00	mg/kg	FE046596.D
Total AliphaticEPH	Total AliphaticEPH	3.37	J		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.37	J		2.07	5.99	mg/kg	

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/19/24
Project:	LOD-LOQ Study	Date Received:	01/19/24
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2024	SDG No.:	P1187
Lab Sample ID:	P1187-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.05 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 15:20	PB158548

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.36	J	1	0.15	0.67	mg/kg	FD047147.D
Aromatic C12-C16	Aromatic C12-C16	0.61	J	1	0.15	1.00	mg/kg	FD047147.D
Aromatic C16-C21	Aromatic C16-C21	1.05	J	1	0.30	1.66	mg/kg	FD047147.D
Aromatic C21-C36	Aromatic C21-C36	1.61	J	1	0.39	2.66	mg/kg	FD047147.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.63	J		0.99	5.98	mg/kg	
Total EPH	Total EPH	3.63	J		0.99	5.98	mg/kg	

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/19/24
Project:	LOD-LOQ Study	Date Received:	01/19/24
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2024	SDG No.:	P1187
Lab Sample ID:	P1187-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.05 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 12:53	PB158548

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.33	J	1	0.24	1.00	mg/kg	FC065581.D
Aliphatic C12-C16	Aliphatic C12-C16	0.27	J	1	0.14	0.67	mg/kg	FC065581.D
Aliphatic C16-C21	Aliphatic C16-C21	0.54	J	1	0.21	1.00	mg/kg	FC065581.D
Aliphatic C21-C28	Aliphatic C21-C28	0.79	J	1	0.46	1.33	mg/kg	FC065581.D
Aliphatic C28-C40	Aliphatic C28-C40	1.34	J	1	1.02	2.00	mg/kg	FC065581.D
Total AliphaticEPH	Total AliphaticEPH	3.27	J		2.07	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.27	J		2.07	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	01/19/24
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2024	SDG No.:	P1187
Lab Sample ID:	P1187-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC065582.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	0.59	J	0.24	1.00	mg/kg
Aliphatic C12-C16		Aliphatic C12-C16	0.48	J	0.14	0.67	mg/kg
Aliphatic C16-C21		Aliphatic C16-C21	0.90	J	0.21	1.00	mg/kg
Aliphatic C21-C28		Aliphatic C21-C28	1.30	J	0.46	1.33	mg/kg
Aliphatic C28-C40		Aliphatic C28-C40	1.84	J	1.02	2.00	mg/kg
SURROGATES							
3383-33-2		1-chlorooctadecane (SURR)	37.8		40 - 140	76%	SPK: 50
84-15-1		ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P1187-01	Acq On:	01 Feb 2024 13:29
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2	Operator:	YP/AJ
Data file:	FC065582.D	Misc:	LOD 4 PPM
Instrument:	FID_C	ALS Vial:	5
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.185	6.461	1399037	8.839	300	ug/ml
Aliphatic C12-C16	6.462	9.845	1150559	7.264	200	ug/ml
Aliphatic C16-C21	9.846	13.191	2168886	13.557	300	ug/ml
Aliphatic C21-C28	13.192	16.832	3013356	19.574	400	ug/ml
Aliphatic C28-C40	16.833	21.647	3971815	27.666	600	ug/ml
Aliphatic EPH	3.185	21.647	11703653	76.9		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.925	12.925	5091137	37.77		ug/ml
Aliphatic C9-C28	3.185	16.832	7731838	49.234	1200	ug/ml