

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Hamilton M&R	Date Received:	04/17/25
Client Sample ID:	SOIL-2C	SDG No.:	Q1830
Lab Sample ID:	Q1830-14	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.9
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/18/25 08:35	04/18/25 20:53	PB167642

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.39		1	1.33	2.25	mg/kg	FE053424.D
Aliphatic C9-C28	Aliphatic C9-C28	13.5		1	1.02	4.49	mg/kg	FE053424.D
Total AliphaticEPH	Total AliphaticEPH	20.9			2.35	6.74	mg/kg	
Total EPH	Total EPH	20.9			2.35	6.74	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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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Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053424.D	1	04/18/25	04/18/25	PB167642

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	13.5		1.02	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.39		1.33	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.4		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.1		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1830-14	Acq On:	18 Apr 2025 20:53
Client Sample ID:	SOIL-2C	Operator:	YP\AJ
Data file:	FE053424.D	Misc:	
Instrument:	FID_E	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.126	6.766	411990	2.973	300	ug/ml
Aliphatic C12-C16	6.767	10.215	1630763	11.5	200	ug/ml
Aliphatic C16-C21	10.216	13.590	15613605	107.411	300	ug/ml
Aliphatic C21-C28	13.591	17.259	8215442	57.784	400	ug/ml
Aliphatic C28-C40	17.260	22.151	12720399	98.57	600	ug/ml
Aliphatic EPH	3.126	22.151	38592199	278.238		ug/ml
ortho-Terphenyl (SURR)	11.879	11.879	5434779	30.13		ug/ml
1-chlorooctadecane (SURR)	13.324	13.324	4116706	30.45		ug/ml
Aliphatic C9-C28	3.126	17.259	25871800	179.668	1200	ug/ml