

Report of Analysis

Client:	PSEG	Date Collected:	05/23/25
Project:	Hamilton M&R	Date Received:	05/23/25
Client Sample ID:	EPH-2-C	SDG No.:	Q2127
Lab Sample ID:	Q2127-14	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.3
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/27/25 08:50	05/28/25 16:04	PB168161

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	85.8		5	6.74	11.4	mg/kg FE054051.D
Aliphatic C9-C28	Aliphatic C9-C28	22.7		1	1.04	4.56	mg/kg FE054029.D
Total AliphaticEPH	Total AliphaticEPH	109			7.78	16.0	mg/kg
Total EPH	Total EPH	109			7.78	16.0	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054029.D	1	05/27/25	05/27/25	PB168161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	22.7		1.04	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	63.6	E	1.35	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	56.6		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.1		40 - 140	100%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2127-14	Acq On:	27 May 2025 19:52
Client Sample ID:	EPH-2-C	Operator:	YP\AJ
Data file:	FE054029.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.741	2156383	15.907	300	ug/ml
Aliphatic C12-C16	6.742	10.189	9722217	72.048	200	ug/ml
Aliphatic C16-C21	10.190	13.564	13322968	101	300	ug/ml
Aliphatic C21-C28	13.565	17.234	13528972	108.949	400	ug/ml
Aliphatic C28-C40	17.235	22.120	96274372	834.044	600	ug/ml
Aliphatic EPH	3.094	22.120	135004912	1130		ug/ml
ortho-Terphenyl (SURR)	11.850	11.850	8145145	50.12		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	6709412	56.6		ug/ml
Aliphatic C9-C28	3.094	17.234	38730540	297.904	1200	ug/ml