

Report of Analysis

Client:	PSEG	Date Collected:	05/23/25
Project:	Hamilton M&R	Date Received:	05/23/25
Client Sample ID:	EPH-1-H	SDG No.:	Q2127
Lab Sample ID:	Q2127-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.9
Sample Wt/Vol:	30.03	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 11:40	PB168161

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	54.2		5	6.63	11.2	mg/kg FC069026.D
Aliphatic C9-C28	Aliphatic C9-C28	24.2		1	1.02	4.49	mg/kg FC069017.D
Total AliphaticEPH	Total AliphaticEPH	78.4			7.65	15.7	mg/kg
Total EPH	Total EPH	78.4			7.65	15.7	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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Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069017.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	24.2		1.02	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	49.6	E	1.33	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.0		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.9		40 - 140	62%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2127-09	Acq On:	27 May 2025 21:08
Client Sample ID:	EPH-1-H	Operator:	YP/AJ
Data file:	FC069017.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.339	6.639	1716310	16.235	300	ug/ml
Aliphatic C12-C16	6.640	10.038	5845414	57.316	200	ug/ml
Aliphatic C16-C21	10.039	13.403	7711797	78.8	300	ug/ml
Aliphatic C21-C28	13.404	17.067	16062774	171.238	400	ug/ml
Aliphatic C28-C40	17.068	22.058	62554953	662.385	600	ug/ml
Aliphatic EPH	3.339	22.058	93891248	985.974		ug/ml
ortho-Terphenyl (SURR)	11.706	11.706	3817252	30.95		ug/ml
1-chlorooctadecane (SURR)	13.140	13.140	3143697	35.04		ug/ml
Aliphatic C9-C28	3.339	17.067	31336295	323.589	1200	ug/ml