

Report of Analysis

Client:	PSEG	Date Collected:	05/23/25
Project:	Hamilton M&R	Date Received:	05/23/25
Client Sample ID:	EPH-1-G	SDG No.:	Q2127
Lab Sample ID:	Q2127-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.4
Sample Wt/Vol:	30.07	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 11:03	PB168161

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	63.0		5	6.66	11.3	mg/kg FC069025.D
Aliphatic C9-C28	Aliphatic C9-C28	45.1		1	1.03	4.51	mg/kg FC069016.D
Total AliphaticEPH	Total AliphaticEPH	108			7.69	15.8	mg/kg
Total EPH	Total EPH	108			7.69	15.8	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 :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069016.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	45.1		1.03	4.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	51.3	E	1.33	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.3		40 - 140	93%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.2		40 - 140	82%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2127-08	Acq On:	27 May 2025 20:31
Client Sample ID:	EPH-1-G	Operator:	YP/AJ
Data file:	FC069016.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.339	6.639	2134190	20.188	300	ug/ml
Aliphatic C12-C16	6.640	10.038	13922182	136.511	200	ug/ml
Aliphatic C16-C21	10.039	13.403	16090662	164.417	300	ug/ml
Aliphatic C21-C28	13.404	17.067	26000482	277.179	400	ug/ml
Aliphatic C28-C40	17.068	22.058	64345502	681.344	600	ug/ml
Aliphatic EPH	3.339	22.058	122493018	1280		ug/ml
ortho-Terphenyl (SURR)	11.709	11.709	5086239	41.24		ug/ml
1-chlorooctadecane (SURR)	13.141	13.141	4151913	46.28		ug/ml
Aliphatic C9-C28	3.339	17.067	58147516	598.295	1200	ug/ml