

Report of Analysis

Client:	PSEG	Date Collected:	05/23/25
Project:	Hamilton M&R	Date Received:	05/23/25
Client Sample ID:	COMP-1	SDG No.:	Q2127
Lab Sample ID:	Q2127-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.4
Sample Wt/Vol:	30.08	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	05/27/25 15:52	PB168161

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	10.0		1	1.32	2.23	mg/kg FE054021.D
Aliphatic C9-C28	Aliphatic C9-C28	12.6		1	1.01	4.47	mg/kg FE054021.D
Total AliphaticEPH	Total AliphaticEPH	22.6			2.34	6.70	mg/kg
Total EPH	Total EPH	22.6			2.34	6.70	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
FE054021.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	12.6		1.01	4.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.0		1.32	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.0		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.9		40 - 140	56%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2127-01	Acq On:	27 May 2025 15:52
Client Sample ID:	COMP-1	Operator:	YP\AJ
Data file:	FE054021.D	Misc:	
Instrument:	FID_E	ALS Vial:	10
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.741	1610257	11.878	300	ug/ml
Aliphatic C12-C16	6.742	10.189	6463111	47.896	200	ug/ml
Aliphatic C16-C21	10.190	13.564	7135744	54.095	300	ug/ml
Aliphatic C21-C28	13.565	17.234	6875316	55.367	400	ug/ml
Aliphatic C28-C40	17.235	22.120	15547608	134.692	600	ug/ml
Aliphatic EPH	3.094	22.120	37632036	303.928		ug/ml
ortho-Terphenyl (SURR)	11.851	11.851	4536971	27.92		ug/ml
1-chlorooctadecane (SURR)	13.296	13.296	3552837	29.97		ug/ml
Aliphatic C9-C28	3.094	17.234	22084428	169.236	1200	ug/ml