

Report of Analysis

Client:	PSEG	Date Collected:	05/21/25
Project:	Lawrenceville HQ	Date Received:	05/21/25
Client Sample ID:	LAW-25-0077	SDG No.:	Q2102
Lab Sample ID:	Q2102-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/22/25 09:30	05/23/25 9:54	PB168127

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	263		20	27.1	45.9	mg/kg	FE053992.D
Aliphatic C9-C28	Aliphatic C9-C28	22300		500	522	2300	mg/kg	FE053993.D
Total AliphaticEPH	Total AliphaticEPH	22600			549	2340	mg/kg	
Total EPH	Total EPH	22600			549	2340	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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Analytical Method:	NJEPH	% Solid:	87
Sample Wt/Vol:	30.02 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
FE053983.D	1	05/22/25	05/22/25	PB168127

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	19200	E	1.04	4.60	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	292	E	1.36	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	0.00		40 - 140	0%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2102-01	Acq On:	22 May 2025 19:11
Client Sample ID:	LAW-25-0077	Operator:	YP\AJ
Data file:	FE053983.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.735	12514675	92.316	300	ug/ml
Aliphatic C12-C16	6.736	10.183	2651543149	19600	200	ug/ml
Aliphatic C16-C21	10.184	13.557	21026084893	159000	300	ug/ml
Aliphatic C21-C28	13.558	17.224	8864775880	71400	400	ug/ml
Aliphatic C28-C40	17.225	22.098	440380390	3820	600	ug/ml
Aliphatic EPH	3.094	22.098	32995298987	254000		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.094	17.224	32554918597	251000	1200	ug/ml