

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP5-B	SDG No.:	Q2971
Lab Sample ID:	Q2971-15	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.6
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/29/25 08:12	08/29/25 14:13	PB169458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.28		1	1.29	2.18	mg/kg	FG016477.D
Aliphatic C9-C28	Aliphatic C9-C28	2.08	J	1	0.99	4.36	mg/kg	FG016477.D
Total AliphaticEPH	Total AliphaticEPH	6.37	J		2.28	6.54	mg/kg	
Total EPH	Total EPH	6.37	J		2.28	6.54	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016477.D	1	08/29/25	08/29/25	PB169458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.08	J	0.99	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.28		1.29	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	52.6		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.9		40 - 140	100%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-15	Acq On:	29 Aug 2025 14:13
Client Sample ID:	TP5-B	Operator:	YP\AJ
Data file:	FG016477.D	Misc:	
Instrument:	FID_G	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.290	6.934	450036	3.922	300	ug/ml
Aliphatic C12-C16	6.935	10.394	793668	6.762	200	ug/ml
Aliphatic C16-C21	10.395	13.784	990664	8.433	300	ug/ml
Aliphatic C21-C28	13.785	17.470	1070356	9.575	400	ug/ml
Aliphatic C28-C40	17.471	22.519	5346703	58.83	600	ug/ml
Aliphatic EPH	3.290	22.519	8651427	87.521		ug/ml
ortho-Terphenyl (SURR)	12.074	12.074	6610289	49.93		ug/ml
1-chlorooctadecane (SURR)	13.519	13.519	5298227	52.64		ug/ml
Aliphatic C9-C28	3.290	17.470	3304724	28.692	1200	ug/ml