

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP5-C	SDG No.:	Q2971
Lab Sample ID:	Q2971-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.2
Sample Wt/Vol:	30.01	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 14:42	PB169458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	15.1		1	1.34	2.27	mg/kg FG016478.D
Aliphatic C9-C28	Aliphatic C9-C28	27.1		1	1.03	4.53	mg/kg FG016478.D
Total AliphaticEPH	Total AliphaticEPH	42.2			2.37	6.80	mg/kg
Total EPH	Total EPH	42.2			2.37	6.80	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
FG016478.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	27.1		1.03	4.53	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.1		1.34	2.27	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.0		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.7		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-16	Acq On:	29 Aug 2025 14:42
Client Sample ID:	TP5-C	Operator:	YP\AJ
Data file:	FG016478.D	Misc:	
Instrument:	FID_G	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.290	6.934	558739	4.869	300	ug/ml
Aliphatic C12-C16	6.935	10.394	6066676	51.687	200	ug/ml
Aliphatic C16-C21	10.395	13.784	13570533	115.519	300	ug/ml
Aliphatic C21-C28	13.785	17.470	20861690	186.618	400	ug/ml
Aliphatic C28-C40	17.471	22.519	18133318	199.521	600	ug/ml
Aliphatic EPH	3.290	22.519	59190956	558.214		ug/ml
ortho-Terphenyl (SURR)	12.073	12.073	4987945	37.68		ug/ml
1-chlorooctadecane (SURR)	13.518	13.518	4532698	45.03		ug/ml
Aliphatic C9-C28	3.290	17.470	41057638	358.693	1200	ug/ml