

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP6-D	SDG No.:	Q2970
Lab Sample ID:	Q2970-29	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78.2
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/28/25 10:00	08/29/25 11:48	PB169430

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.60		1	1.51	2.55	mg/kg	FE055593.D
Aliphatic C9-C28	Aliphatic C9-C28	1.39	J	1	1.16	5.11	mg/kg	FE055593.D
Total AliphaticEPH	Total AliphaticEPH	3.99	J		2.67	7.66	mg/kg	
Total EPH	Total EPH	3.99	J		2.67	7.66	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
FE055593.D	1	08/28/25	08/29/25	PB169430

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.39	J	1.16	5.11	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.60		1.51	2.55	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.7		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.7		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2970-29	Acq On:	29 Aug 2025 11:48
Client Sample ID:	TP6-D	Operator:	YP\AJ
Data file:	FE055593.D	Misc:	
Instrument:	FID_E	ALS Vial:	44
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.313	6.947	514896	4.01	300	ug/ml
Aliphatic C12-C16	6.948	10.399	998553	7.391	200	ug/ml
Aliphatic C16-C21	10.400	13.777	708532	4.913	300	ug/ml
Aliphatic C21-C28	13.778	17.448	824898	5.759	400	ug/ml
Aliphatic C28-C40	17.449	22.462	4200071	30.497	600	ug/ml
Aliphatic EPH	3.313	22.462	7246950	52.571		ug/ml
ortho-Terphenyl (SURR)	12.076	12.076	5371665	32.7		ug/ml
1-chlorooctadecane (SURR)	13.513	13.513	4213727	33.7		ug/ml
Aliphatic C9-C28	3.313	17.448	3046879	22.073	1200	ug/ml