

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP3-A	SDG No.:	Q2970
Lab Sample ID:	Q2970-32	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.1
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/28/25 08:55	08/28/25 18:38	PB169432

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.06		1	1.29	2.19	mg/kg	FE055561.D
Aliphatic C9-C28	Aliphatic C9-C28	4.39	U	1	1.00	4.39	mg/kg	FE055561.D
Total AliphaticEPH	Total AliphaticEPH	4.06	J		2.29	6.58	mg/kg	
Total EPH	Total EPH	4.06	J		2.29	6.58	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
FE055561.D	1	08/28/25	08/28/25	PB169432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.00	4.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.06		1.29	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	23.5		40 - 140	47%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	20.9		40 - 140	42%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2970-32	Acq On:	28 Aug 2025 18:38
Client Sample ID:	TP3-A	Operator:	YP\AJ
Data file:	FE055561.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.314	6.948	503206	3.919	300	ug/ml
Aliphatic C12-C16	6.949	10.400	726767	5.38	200	ug/ml
Aliphatic C16-C21	10.401	13.779	550011	3.814	300	ug/ml
Aliphatic C21-C28	13.780	17.450	761577	5.317	400	ug/ml
Aliphatic C28-C40	17.451	22.465	7657852	55.605	600	ug/ml
Aliphatic EPH	3.314	22.465	10199413	74.034		ug/ml
ortho-Terphenyl (SURR)	12.076	12.076	3434134	20.9		ug/ml
1-chlorooctadecane (SURR)	13.513	13.513	2935907	23.48		ug/ml
Aliphatic C9-C28	3.314	17.450	2541561	18.43	1200	ug/ml