

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP6-C	SDG No.:	Q2970
Lab Sample ID:	Q2970-28	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83.9
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/28/25 10:00	08/29/25 11:18	PB169430

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.54		1	1.40	2.38	mg/kg	FE055592.D
Aliphatic C9-C28	Aliphatic C9-C28	1.85	J	1	1.08	4.76	mg/kg	FE055592.D
Total AliphaticEPH	Total AliphaticEPH	4.39	J		2.48	7.14	mg/kg	
Total EPH	Total EPH	4.39	J		2.48	7.14	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
FE055592.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	1.85	J	1.08	4.76	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.54		1.40	2.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.8		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.5		40 - 140	85%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2970-28	Acq On:	29 Aug 2025 11:18
Client Sample ID:	TP6-C	Operator:	YP\AJ
Data file:	FE055592.D	Misc:	
Instrument:	FID_E	ALS Vial:	43
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.313	6.947	953157	7.423	300	ug/ml
Aliphatic C12-C16	6.948	10.399	1195276	8.848	200	ug/ml
Aliphatic C16-C21	10.400	13.777	1014329	7.033	300	ug/ml
Aliphatic C21-C28	13.778	17.448	1122095	7.834	400	ug/ml
Aliphatic C28-C40	17.449	22.462	4411138	32.03	600	ug/ml
Aliphatic EPH	3.313	22.462	8695995	63.168		ug/ml
ortho-Terphenyl (SURR)	12.077	12.077	6988801	42.54		ug/ml
1-chlorooctadecane (SURR)	13.513	13.513	5599717	44.78		ug/ml
Aliphatic C9-C28	3.313	17.448	4284857	31.138	1200	ug/ml