

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP4-C	SDG No.:	Q2971
Lab Sample ID:	Q2971-34	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/29/25 09:45	08/29/25 15:02	PB169462

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.43		1	1.39	2.35	mg/kg	FE055597.D
Aliphatic C9-C28	Aliphatic C9-C28	4.12	J	1	1.07	4.71	mg/kg	FE055597.D
Total AliphaticEPH	Total AliphaticEPH	7.54			2.46	7.06	mg/kg	
Total EPH	Total EPH	7.54			2.46	7.06	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055597.D	1	08/29/25	08/29/25	PB169462

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.12	J	1.07	4.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.43		1.39	2.35	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.0		40 - 140	58%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.6		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-34	Acq On:	29 Aug 2025 15:02
Client Sample ID:	TP4-C	Operator:	YP\AJ
Data file:	FE055597.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.313	6.947	602962	4.696	300	ug/ml
Aliphatic C12-C16	6.948	10.399	1389333	10.284	200	ug/ml
Aliphatic C16-C21	10.400	13.777	2192171	15.2	300	ug/ml
Aliphatic C21-C28	13.778	17.448	3196524	22.317	400	ug/ml
Aliphatic C28-C40	17.449	22.462	6017116	43.691	600	ug/ml
Aliphatic EPH	3.313	22.462	13398106	96.188		ug/ml
ortho-Terphenyl (SURR)	12.079	12.079	4542197	27.65		ug/ml
1-chlorooctadecane (SURR)	13.515	13.515	3622674	28.97		ug/ml
Aliphatic C9-C28	3.313	17.448	7380990	52.497	1200	ug/ml