

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP12-C	SDG No.:	Q2970
Lab Sample ID:	Q2970-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.4
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
08/28/25 10:00	08/29/25 1:19	PB169430

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.21		1	1.30	2.21	mg/kg	FG016457.D
Aliphatic C9-C28	Aliphatic C9-C28	1.04	J	1	1.01	4.43	mg/kg	FG016457.D
Total AliphaticEPH	Total AliphaticEPH	6.25	J		2.31	6.64	mg/kg	
Total EPH	Total EPH	6.25	J		2.31	6.64	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016457.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	1.04	J	1.01	4.43	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.21		1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.8		40 - 140	58%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.3		40 - 140	53%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2970-16	Acq On:	29 Aug 2025 01:19
Client Sample ID:	TP12-C	Operator:	YP\AJ
Data file:	FG016457.D	Misc:	
Instrument:	FID_G	ALS Vial:	39
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.292	6.936	323778	2.822	300	ug/ml
Aliphatic C12-C16	6.937	10.396	644205	5.489	200	ug/ml
Aliphatic C16-C21	10.397	13.787	687037	5.848	300	ug/ml
Aliphatic C21-C28	13.788	17.474	777257	6.953	400	ug/ml
Aliphatic C28-C40	17.475	22.524	6427155	70.718	600	ug/ml
Aliphatic EPH	3.292	22.524	8859432	91.829		ug/ml
ortho-Terphenyl (SURR)	12.073	12.073	3478331	26.27		ug/ml
1-chlorooctadecane (SURR)	13.519	13.519	2902429	28.83		ug/ml
Aliphatic C9-C28	3.292	17.474	2432277	21.112	1200	ug/ml