

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP12-A	SDG No.:	Q2970
Lab Sample ID:	Q2970-14	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93
Sample Wt/Vol:	30.08	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 0:20	PB169430

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.19		1	1.27	2.14	mg/kg	FG016455.D
Aliphatic C9-C28	Aliphatic C9-C28	2.12	J	1	0.98	4.29	mg/kg	FG016455.D
Total AliphaticEPH	Total AliphaticEPH	7.31			2.25	6.42	mg/kg	
Total EPH	Total EPH	7.31			2.25	6.42	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
FG016455.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	2.12	J	0.98	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.19		1.27	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.9		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.5		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2970-14	Acq On:	29 Aug 2025 00:20
Client Sample ID:	TP12-A	Operator:	YP\AJ
Data file:	FG016455.D	Misc:	
Instrument:	FID_G	ALS Vial:	37
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.292	6.936	347052	3.024	300	ug/ml
Aliphatic C12-C16	6.937	10.396	560747	4.777	200	ug/ml
Aliphatic C16-C21	10.397	13.787	1277720	10.877	300	ug/ml
Aliphatic C21-C28	13.788	17.474	1223580	10.946	400	ug/ml
Aliphatic C28-C40	17.475	22.524	6595329	72.568	600	ug/ml
Aliphatic EPH	3.292	22.524	10004428	102.192		ug/ml
ortho-Terphenyl (SURR)	12.075	12.075	4296123	32.45		ug/ml
1-chlorooctadecane (SURR)	13.519	13.519	3512838	34.9		ug/ml
Aliphatic C9-C28	3.292	17.474	3409099	29.624	1200	ug/ml