

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP1-D	SDG No.:	Q2971
Lab Sample ID:	Q2971-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/29/25 08:12	08/29/25 13:14	PB169458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.24		1	1.31	2.23	mg/kg	FG016475.D
Aliphatic C9-C28	Aliphatic C9-C28	1.10	J	1	1.01	4.45	mg/kg	FG016475.D
Total AliphaticEPH	Total AliphaticEPH	5.34	J		2.32	6.68	mg/kg	
Total EPH	Total EPH	5.34	J		2.32	6.68	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
FG016475.D	1	08/29/25	08/29/25	PB169458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.10	J	1.01	4.45	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.24		1.31	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.5		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.9		40 - 140	68%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-11	Acq On:	29 Aug 2025 13:14
Client Sample ID:	TP1-D	Operator:	YP\AJ
Data file:	FG016475.D	Misc:	
Instrument:	FID_G	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.290	6.934	366016	3.19	300	ug/ml
Aliphatic C12-C16	6.935	10.394	621876	5.298	200	ug/ml
Aliphatic C16-C21	10.395	13.784	750360	6.387	300	ug/ml
Aliphatic C21-C28	13.785	17.470	709801	6.35	400	ug/ml
Aliphatic C28-C40	17.471	22.519	5190669	57.113	600	ug/ml
Aliphatic EPH	3.290	22.519	7638722	78.338		ug/ml
ortho-Terphenyl (SURR)	12.072	12.072	4486464	33.89		ug/ml
1-chlorooctadecane (SURR)	13.517	13.517	3472785	34.5		ug/ml
Aliphatic C9-C28	3.290	17.470	2448053	21.225	1200	ug/ml