

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP10-D	SDG No.:	Q2970
Lab Sample ID:	Q2970-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.3
Sample Wt/Vol:	30.04	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	08/28/25 22:51	PB169430

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.22		1	1.43	2.43	mg/kg	FG016452.D
Aliphatic C9-C28	Aliphatic C9-C28	4.85	U	1	1.10	4.85	mg/kg	FG016452.D
Total AliphaticEPH	Total AliphaticEPH	6.22	J		2.53	7.28	mg/kg	
Total EPH	Total EPH	6.22	J		2.53	7.28	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
FG016452.D	1	08/28/25	08/28/25	PB169430

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.10	4.85	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.22		1.43	2.43	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.4		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:	Q2970-05	Acq On:	28 Aug 2025 22:51
Client Sample ID:	TP10-D	Operator:	YP\AJ
Data file:	FG016452.D	Misc:	
Instrument:	FID_G	ALS Vial:	34
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.292	6.936	322774	2.813	300	ug/ml
Aliphatic C12-C16	6.937	10.396	613980	5.231	200	ug/ml
Aliphatic C16-C21	10.397	13.787	654799	5.574	300	ug/ml
Aliphatic C21-C28	13.788	17.474	642384	5.746	400	ug/ml
Aliphatic C28-C40	17.475	22.524	6986013	76.867	600	ug/ml
Aliphatic EPH	3.292	22.524	9219950	96.231		ug/ml
ortho-Terphenyl (SURR)	12.075	12.075	4487565	33.9		ug/ml
1-chlorooctadecane (SURR)	13.520	13.520	3466420	34.44		ug/ml
Aliphatic C9-C28	3.292	17.474	2233937	19.364	1200	ug/ml