

Report of Analysis

Client:	PSEG	Date Collected:	03/25/25
Project:	NYE Avenue Substation	Date Received:	03/25/25
Client Sample ID:	TP-1-EPH	SDG No.:	Q1645
Lab Sample ID:	Q1645-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.9
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
03/26/25 09:45	03/27/25 1:34	PB167323

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.68	J	1	1.28	2.17	mg/kg	FE052999.D
Aliphatic C9-C28	Aliphatic C9-C28	1.44	J	1	0.99	4.35	mg/kg	FE052999.D
Total AliphaticEPH	Total AliphaticEPH	3.12	J		2.27	6.52	mg/kg	
Total EPH	Total EPH	3.12	J		2.27	6.52	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052999.D	1	03/26/25	03/27/25	PB167323

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.44	J	0.99	4.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.68	J	1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	23.0		40 - 140	46%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.0		40 - 140	46%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1645-06	Acq On:	27 Mar 2025 01:34
Client Sample ID:	TP-1-EPH	Operator:	YP\AJ
Data file:	FE052999.D	Misc:	
Instrument:	FID_E	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.147	6.791	1829339	11.73	300	ug/ml
Aliphatic C12-C16	6.792	10.245	742757	4.883	200	ug/ml
Aliphatic C16-C21	10.246	13.624	488271	3.332	300	ug/ml
Aliphatic C21-C28	13.625	17.297	1116809	7.84	400	ug/ml
Aliphatic C28-C40	17.298	22.217	2961230	23.209	600	ug/ml
Aliphatic EPH	3.147	22.217	7138406	50.995		ug/ml
ortho-Terphenyl (SURR)	11.898	11.898	3878991	23.01		ug/ml
1-chlorooctadecane (SURR)	13.342	13.342	2798058	23.04		ug/ml
Aliphatic C9-C28	3.147	17.297	4177176	27.785	1200	ug/ml