

Report of Analysis

Client:	PSEG	Date Collected:	08/28/25
Project:	Mountain Ave Substation	Date Received:	08/28/25
Client Sample ID:	NORTH-TP-2	SDG No.:	Q2986
Lab Sample ID:	Q2986-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/29/25 09:45	08/29/25 21:39	PB169462

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.37		1	1.27	2.16	mg/kg	FE055610.D
Aliphatic C9-C28	Aliphatic C9-C28	1.76	J	1	0.98	4.32	mg/kg	FE055610.D
Total AliphaticEPH	Total AliphaticEPH	10.1			2.25	6.48	mg/kg	
Total EPH	Total EPH	10.1			2.25	6.48	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055610.D	1	08/29/25	08/29/25	PB169462

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.76	J	0.98	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.37		1.27	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.6		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.0		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2986-03	Acq On:	29 Aug 2025 21:39
Client Sample ID:	NORTH-TP-2	Operator:	YP\AJ
Data file:	FE055610.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.313	6.947	554596	4.319	300	ug/ml
Aliphatic C12-C16	6.948	10.399	923707	6.837	200	ug/ml
Aliphatic C16-C21	10.400	13.777	680296	4.717	300	ug/ml
Aliphatic C21-C28	13.778	17.448	1228346	8.576	400	ug/ml
Aliphatic C28-C40	17.449	22.462	16042907	116.49	600	ug/ml
Aliphatic EPH	3.313	22.462	19429852	140.939		ug/ml
ortho-Terphenyl (SURR)	12.077	12.077	5256743	32		ug/ml
1-chlorooctadecane (SURR)	13.514	13.514	4196455	33.56		ug/ml
Aliphatic C9-C28	3.313	17.448	3386945	24.449	1200	ug/ml