

Report of Analysis

Client:	PSEG	Date Collected:	03/25/25
Project:	Central Ave Substation	Date Received:	03/25/25
Client Sample ID:	TP-6	SDG No.:	Q1648
Lab Sample ID:	Q1648-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83.5
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
03/27/25 09:55	03/27/25 15:22	PB167350

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.89		1	1.41	2.39	mg/kg	FE053018.D
Aliphatic C9-C28	Aliphatic C9-C28	3.77	J	1	1.09	4.79	mg/kg	FE053018.D
Total AliphaticEPH	Total AliphaticEPH	10.7			2.50	7.18	mg/kg	
Total EPH	Total EPH	10.7			2.50	7.18	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
FE053018.D	1	03/27/25	03/27/25	PB167350

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.77	J	1.09	4.79	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.89		1.41	2.39	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	26.4		40 - 140	53%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.7		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1648-07	Acq On:	27 Mar 2025 15:22
Client Sample ID:	TP-6	Operator:	YP\AJ
Data file:	FE053018.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.143	6.785	1070208	6.863	300	ug/ml
Aliphatic C12-C16	6.786	10.236	999289	6.57	200	ug/ml
Aliphatic C16-C21	10.237	13.612	1806359	12.326	300	ug/ml
Aliphatic C21-C28	13.613	17.282	3077757	21.606	400	ug/ml
Aliphatic C28-C40	17.283	22.191	11020516	86.375	600	ug/ml
Aliphatic EPH	3.143	22.191	17974129	133.739		ug/ml
ortho-Terphenyl (SURR)	11.900	11.900	4337668	25.73		ug/ml
1-chlorooctadecane (SURR)	13.344	13.344	3204229	26.39		ug/ml
Aliphatic C9-C28	3.143	17.282	6953613	47.365	1200	ug/ml