

Report of Analysis

Client:	PSEG	Date Collected:	03/25/25
Project:	Central Ave Substation	Date Received:	03/25/25
Client Sample ID:	TP-5	SDG No.:	Q1648
Lab Sample ID:	Q1648-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
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
03/27/25 09:55	03/27/25 14:22	PB167350

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	7.95		1	1.36	2.30	mg/kg FE053016.D
Aliphatic C9-C28	Aliphatic C9-C28	4.88		1	1.05	4.61	mg/kg FE053016.D
Total AliphaticEPH	Total AliphaticEPH	12.8			2.41	6.91	mg/kg
Total EPH	Total EPH	12.8			2.41	6.91	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
FE053016.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	4.88		1.05	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.95		1.36	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.3		40 - 140	55%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.7		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1648-03	Acq On:	27 Mar 2025 14:22
Client Sample ID:	TP-5	Operator:	YP\AJ
Data file:	FE053016.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.143	6.785	1031839	6.617	300	ug/ml
Aliphatic C12-C16	6.786	10.236	947584	6.23	200	ug/ml
Aliphatic C16-C21	10.237	13.612	2717681	18.545	300	ug/ml
Aliphatic C21-C28	13.613	17.282	4578903	32.144	400	ug/ml
Aliphatic C28-C40	17.283	22.191	13216546	103.587	600	ug/ml
Aliphatic EPH	3.143	22.191	22492553	167.122		ug/ml
ortho-Terphenyl (SURR)	11.900	11.900	4325106	25.66		ug/ml
1-chlorooctadecane (SURR)	13.344	13.344	3319366	27.34		ug/ml
Aliphatic C9-C28	3.143	17.282	9276007	63.536	1200	ug/ml