

Report of Analysis

Client:	PSEG	Date Collected:	05/20/25
Project:	Waldwick Substation	Date Received:	05/20/25
Client Sample ID:	RBR251372	SDG No.:	Q2097
Lab Sample ID:	Q2097-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.1
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
05/21/25 09:30	05/21/25 22:22	PB168103

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	5.52		1	1.25	2.12	mg/kg FE053960.D
Aliphatic C9-C28	Aliphatic C9-C28	7.59		1	0.97	4.24	mg/kg FE053960.D
Total AliphaticEPH	Total AliphaticEPH	13.1			2.21	6.36	mg/kg
Total EPH	Total EPH	13.1			2.21	6.36	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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Analytical Method:	NJEPH	% Solid:	94.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053960.D	1	05/21/25	05/21/25	PB168103

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7.59		0.97	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.52		1.25	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.7		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2097-13	Acq On:	21 May 2025 22:22
Client Sample ID:	RBR251372	Operator:	YP\AJ
Data file:	FE053960.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.735	310163	2.288	300	ug/ml
Aliphatic C12-C16	6.736	10.183	1665711	12.344	200	ug/ml
Aliphatic C16-C21	10.184	13.556	9343151	70.829	300	ug/ml
Aliphatic C21-C28	13.557	17.223	2728978	21.977	400	ug/ml
Aliphatic C28-C40	17.224	22.099	9018082	78.125	600	ug/ml
Aliphatic EPH	3.094	22.099	23066085	185.563		ug/ml
ortho-Terphenyl (SURR)	11.845	11.845	5634670	34.67		ug/ml
1-chlorooctadecane (SURR)	13.290	13.290	4437552	37.43		ug/ml
Aliphatic C9-C28	3.094	17.223	14048003	107.438	1200	ug/ml