

Report of Analysis

Client:	PSEG	Date Collected:	05/20/25
Project:	Waldwick Substation	Date Received:	05/20/25
Client Sample ID:	72-12013	SDG No.:	Q2097
Lab Sample ID:	Q2097-15	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.3
Sample Wt/Vol:	30.02	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 22:53	PB168103

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.47		1	1.24	2.10	mg/kg	FE053961.D
Aliphatic C9-C28	Aliphatic C9-C28	2.15	J	1	0.95	4.20	mg/kg	FE053961.D
Total AliphaticEPH	Total AliphaticEPH	7.62			2.19	6.30	mg/kg	
Total EPH	Total EPH	7.62			2.19	6.30	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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Sample Wt/Vol:	30.02 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
FE053961.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	2.15	J	0.95	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.47		1.24	2.10	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	61.5		40 - 140	123%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	56.3		40 - 140	113%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2097-15	Acq On:	21 May 2025 22:53
Client Sample ID:	72-12013	Operator:	YP\AJ
Data file:	FE053961.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.735	339671	2.506	300	ug/ml
Aliphatic C12-C16	6.736	10.183	805046	5.966	200	ug/ml
Aliphatic C16-C21	10.184	13.556	886426	6.72	300	ug/ml
Aliphatic C21-C28	13.557	17.223	1941922	15.638	400	ug/ml
Aliphatic C28-C40	17.224	22.099	9038251	78.3	600	ug/ml
Aliphatic EPH	3.094	22.099	13011316	109.13		ug/ml
ortho-Terphenyl (SURR)	11.847	11.847	9154941	56.33		ug/ml
1-chlorooctadecane (SURR)	13.291	13.291	7284811	61.45		ug/ml
Aliphatic C9-C28	3.094	17.223	3973065	30.83	1200	ug/ml