

Report of Analysis

Client:	PSEG	Date Collected:	07/28/25
Project:	Waldwick Substation	Date Received:	07/28/25
Client Sample ID:	7211935-295	SDG No.:	Q2709
Lab Sample ID:	Q2709-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	96.7
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
07/29/25 09:40	07/29/25 15:24	PB169044

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	9.12		1	1.22	2.06	mg/kg FE055069.D
Aliphatic C9-C28	Aliphatic C9-C28	140		2	1.87	8.24	mg/kg FE055081.D
Total AliphaticEPH	Total AliphaticEPH	149			3.09	10.3	mg/kg
Total EPH	Total EPH	149			3.09	10.3	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:	96.7
Sample Wt/Vol:	30.09 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
FE055069.D	1	07/29/25	07/29/25	PB169044

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	155	E	0.94	4.12	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.12		1.22	2.06	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	52.3		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.7		40 - 140	99%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2709-01	Acq On:	29 Jul 2025 15:24
Client Sample ID:	7211935-295	Operator:	YP\AJ
Data file:	FE055069.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	3.325	6.960	433741	3.499	300	ug/ml
Aliphatic C12-C16	6.961	10.412	14952953	112.5	200	ug/ml
Aliphatic C16-C21	10.413	13.792	198406180	1510	300	ug/ml
Aliphatic C21-C28	13.793	17.463	80636440	646.354	400	ug/ml
Aliphatic C28-C40	17.464	22.491	15993744	132.741	600	ug/ml
Aliphatic EPH	3.325	22.491	310423058	2410		ug/ml
ortho-Terphenyl (SURR)	12.094	12.094	7357485	49.71		ug/ml
1-chlorooctadecane (SURR)	13.528	13.528	5858863	52.32		ug/ml
Aliphatic C9-C28	3.325	17.463	294429314	2280	1200	ug/ml