

Report of Analysis

Client:	PSEG	Date Collected:	05/01/25
Project:	Waldwick Substation	Date Received:	05/01/25
Client Sample ID:	COMP-5	SDG No.:	Q1932
Lab Sample ID:	Q1932-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.8
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/02/25 09:15	05/02/25 14:22	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	3.16		1	1.27	2.15	mg/kg FE053620.D
Aliphatic C9-C28	Aliphatic C9-C28	155		5	4.90	21.6	mg/kg FE053662.D
Total AliphaticEPH	Total AliphaticEPH	159			6.17	23.7	mg/kg
Total EPH	Total EPH	159			6.17	23.7	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
FE053620.D	1	05/02/25	05/02/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	177	E	0.98	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.16		1.27	2.15	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.9		40 - 140	46%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.1		40 - 140	44%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1932-03	Acq On:	02 May 2025 14:22
Client Sample ID:	COMP-5	Operator:	YP\AJ
Data file:	FE053620.D	Misc:	
Instrument:	FID_E	ALS Vial:	7
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.114	6.755	937291	6.764	300	ug/ml
Aliphatic C12-C16	6.756	10.204	35446180	249.962	200	ug/ml
Aliphatic C16-C21	10.205	13.579	242901819	1670	300	ug/ml
Aliphatic C21-C28	13.580	17.248	76101493	535.268	400	ug/ml
Aliphatic C28-C40	17.249	22.135	5671607	43.949	600	ug/ml
Aliphatic EPH	3.114	22.135	361058390	2510		ug/ml
ortho-Terphenyl (SURR)	11.871	11.871	3979867	22.07		ug/ml
1-chlorooctadecane (SURR)	13.316	13.316	3102193	22.95		ug/ml
Aliphatic C9-C28	3.114	17.248	355386783	2460	1200	ug/ml