

Report of Analysis

Client:	PSEG	Date Collected:	05/20/25
Project:	Waldwick Substation	Date Received:	05/20/25
Client Sample ID:	RBR251675	SDG No.:	Q2097
Lab Sample ID:	Q2097-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.1
Sample Wt/Vol:	30.03	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 17:29	PB168103

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	7.05		1	1.27	2.15	mg/kg FC068963.D
Aliphatic C9-C28	Aliphatic C9-C28	721		20	19.6	85.9	mg/kg FC068975.D
Total AliphaticEPH	Total AliphaticEPH	728			20.8	88.0	mg/kg
Total EPH	Total EPH	728			20.8	88.0	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
FC068963.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	610	E	0.98	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.05		1.27	2.15	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	58.3		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	58.8		40 - 140	118%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2097-05	Acq On:	21 May 2025 17:29
Client Sample ID:	RBR251675	Operator:	YP/AJ
Data file:	FC068963.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.341	6.640	328004	3.309	300	ug/ml
Aliphatic C12-C16	6.641	10.039	75672191	831.705	200	ug/ml
Aliphatic C16-C21	10.040	13.405	498632418	5810	300	ug/ml
Aliphatic C21-C28	13.406	17.068	157959730	1900	400	ug/ml
Aliphatic C28-C40	17.069	22.060	8336316	98.512	600	ug/ml
Aliphatic EPH	3.341	22.060	740928659	8650		ug/ml
ortho-Terphenyl (SURR)	11.719	11.719	6711327	58.8		ug/ml
1-chlorooctadecane (SURR)	13.150	13.150	4677742	58.31		ug/ml
Aliphatic C9-C28	3.341	17.068	732592343	8550	1200	ug/ml