

Report of Analysis

Client:	PSEG	Date Collected:	04/25/25
Project:	Waldwick Substation	Date Received:	04/25/25
Client Sample ID:	COMP-1	SDG No.:	Q1895
Lab Sample ID:	Q1895-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.9
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/28/25 10:25	04/28/25 19:40	PB167768

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.15	U	1	1.27	2.15	mg/kg	FE053552.D
Aliphatic C9-C28	Aliphatic C9-C28	7.15		1	0.98	4.29	mg/kg	FE053552.D
Total AliphaticEPH	Total AliphaticEPH	7.15			2.25	6.44	mg/kg	
Total EPH	Total EPH	7.15			2.25	6.44	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:	92.9
Sample Wt/Vol:	30.05 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
FE053552.D	1	04/28/25	04/28/25	PB167768

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7.15		0.98	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.15	U	1.27	2.15	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.3		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.6		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1895-01	Acq On:	28 Apr 2025 19:40
Client Sample ID:	COMP-1	Operator:	YP\AJ
Data file:	FE053552.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.119	6.761	437157	3.155	300	ug/ml
Aliphatic C12-C16	6.762	10.211	835725	5.893	200	ug/ml
Aliphatic C16-C21	10.212	13.587	11984419	82.444	300	ug/ml
Aliphatic C21-C28	13.588	17.257	1179337	8.295	400	ug/ml
Aliphatic C28-C40	17.258	22.153	551480	4.273	600	ug/ml
Aliphatic EPH	3.119	22.153	14988118	104.061		ug/ml
ortho-Terphenyl (SURR)	11.874	11.874	6417097	35.58		ug/ml
1-chlorooctadecane (SURR)	13.318	13.318	4906784	36.3		ug/ml
Aliphatic C9-C28	3.119	17.257	14436638	99.787	1200	ug/ml