

Report of Analysis

Client:	PSEG	Date Collected:	10/02/25
Project:	Waldwick Substation	Date Received:	10/02/25
Client Sample ID:	SG-1-TEST-PIT	SDG No.:	Q3270
Lab Sample ID:	Q3270-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/03/25 09:40	10/03/25 22:51	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.80		1	1.27	2.15	mg/kg	FE056179.D
Aliphatic C9-C28	Aliphatic C9-C28	2.20	J	1	0.98	4.29	mg/kg	FE056179.D
Total AliphaticEPH	Total AliphaticEPH	9.00			2.25	6.44	mg/kg	
Total EPH	Total EPH	9.00			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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056179.D	1	10/03/25	10/03/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.20	J	0.98	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.80		1.27	2.15	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.0		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.6		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3270-02	Acq On:	03 Oct 2025 22:51
Client Sample ID:	SG-1-TEST-PIT	Operator:	YP\AJ
Data file:	FE056179.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.944	610828	4.362	300	ug/ml
Aliphatic C12-C16	6.945	10.393	1340899	8.743	200	ug/ml
Aliphatic C16-C21	10.394	13.770	1077106	6.493	300	ug/ml
Aliphatic C21-C28	13.771	17.439	1653694	11.134	400	ug/ml
Aliphatic C28-C40	17.440	22.443	12944154	95.002	600	ug/ml
Aliphatic EPH	3.311	22.443	17626681	125.734		ug/ml
ortho-Terphenyl (SURR)	12.069	12.069	7065331	37.65		ug/ml
1-chlorooctadecane (SURR)	13.505	13.505	5723846	41.01		ug/ml
Aliphatic C9-C28	3.311	17.439	4682527	30.732	1200	ug/ml