

Report of Analysis

Client:	PSEG	Date Collected:	05/07/25
Project:	Clifton HQ	Date Received:	05/07/25
Client Sample ID:	72-12016-E2	SDG No.:	Q1978
Lab Sample ID:	Q1978-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/08/25 09:45	05/09/25 5:04	PB167906

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.98		1	1.36	2.30	mg/kg	FE053736.D
Aliphatic C9-C28	Aliphatic C9-C28	3.73	J	1	1.04	4.60	mg/kg	FE053736.D
Total AliphaticEPH	Total AliphaticEPH	6.71	J		2.40	6.90	mg/kg	
Total EPH	Total EPH	6.71	J		2.40	6.90	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
FE053736.D	1	05/08/25	05/09/25	PB167906

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.73	J	1.04	4.60	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.98		1.36	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	23.0		40 - 140	46%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.7		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1978-02	Acq On:	09 May 2025 05:04
Client Sample ID:	72-12016-E2	Operator:	YP\AJ
Data file:	FE053736.D	Misc:	
Instrument:	FID_E	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.109	6.750	331635	2.393	300	ug/ml
Aliphatic C12-C16	6.751	10.198	655179	4.62	200	ug/ml
Aliphatic C16-C21	10.199	13.573	4515389	31.063	300	ug/ml
Aliphatic C21-C28	13.574	17.241	1511725	10.633	400	ug/ml
Aliphatic C28-C40	17.242	22.125	5012949	38.845	600	ug/ml
Aliphatic EPH	3.109	22.125	12026877	87.554		ug/ml
ortho-Terphenyl (SURR)	11.857	11.857	4088589	22.67		ug/ml
1-chlorooctadecane (SURR)	13.302	13.302	3106562	22.98		ug/ml
Aliphatic C9-C28	3.109	17.241	7013928	48.709	1200	ug/ml