

Report of Analysis

Client:	PSEG	Date Collected:	05/14/25
Project:	Clifton HQ	Date Received:	05/14/25
Client Sample ID:	281-E2	SDG No.:	Q2043
Lab Sample ID:	Q2043-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.4
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/15/25 09:30	05/16/25 10:11	PB168018

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	52.1		5	6.51	11.0	mg/kg FE053869.D
Aliphatic C9-C28	Aliphatic C9-C28	173		5	5.02	22.1	mg/kg FE053869.D
Total AliphaticEPH	Total AliphaticEPH	225			11.5	33.1	mg/kg
Total EPH	Total EPH	225			11.5	33.1	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053859.D	1	05/15/25	05/15/25	PB168018

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	152	E	1.00	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	45.4	E	1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.8		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.2		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2043-02	Acq On:	15 May 2025 22:13
Client Sample ID:	281-E2	Operator:	YP\AJ
Data file:	FE053859.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	3.101	6.743	5653295	41.702	300	ug/ml
Aliphatic C12-C16	6.744	10.192	19664518	145.726	200	ug/ml
Aliphatic C16-C21	10.193	13.567	165507997	1250	300	ug/ml
Aliphatic C21-C28	13.568	17.235	78013136	628.242	400	ug/ml
Aliphatic C28-C40	17.236	22.117	71188736	616.722	600	ug/ml
Aliphatic EPH	3.101	22.117	340027682	2690		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	6204632	38.18		ug/ml
1-chlorooctadecane (SURR)	13.299	13.299	4713179	39.76		ug/ml
Aliphatic C9-C28	3.101	17.235	268838946	2070	1200	ug/ml