

Report of Analysis

Client:	PSEG	Date Collected:	05/07/25
Project:	PSEG Keasby	Date Received:	05/07/25
Client Sample ID:	SUB-WC	SDG No.:	Q1972
Lab Sample ID:	Q1972-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
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
05/08/25 09:45	05/08/25 16:30	PB167906

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	9.78		1	1.31	2.23	mg/kg FE053713.D
Aliphatic C9-C28	Aliphatic C9-C28	4.79		1	1.01	4.44	mg/kg FE053713.D
Total AliphaticEPH	Total AliphaticEPH	14.6			2.32	6.67	mg/kg
Total EPH	Total EPH	14.6			2.32	6.67	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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Lab Sample ID:	Q1972-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
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
FE053713.D	1	05/08/25	05/08/25	PB167906

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.79		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.78		1.31	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.2		40 - 140	68%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.1		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1972-01	Acq On:	08 May 2025 16:30
Client Sample ID:	SUB-WC	Operator:	YP\AJ
Data file:	FE053713.D	Misc:	
Instrument:	FID_E	ALS Vial:	8
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.109	6.750	561836	4.055	300	ug/ml
Aliphatic C12-C16	6.751	10.198	1139049	8.032	200	ug/ml
Aliphatic C16-C21	10.199	13.573	5209194	35.836	300	ug/ml
Aliphatic C21-C28	13.574	17.241	2355899	16.57	400	ug/ml
Aliphatic C28-C40	17.242	22.125	17016502	131.861	600	ug/ml
Aliphatic EPH	3.109	22.125	26282480	196.354		ug/ml
ortho-Terphenyl (SURR)	11.861	11.861	5795973	32.14		ug/ml
1-chlorooctadecane (SURR)	13.306	13.306	4621337	34.19		ug/ml
Aliphatic C9-C28	3.109	17.241	9265978	64.493	1200	ug/ml