

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	PL-714 Watchung	Date Received:	04/18/25
Client Sample ID:	PL-714-31	SDG No.:	Q1842
Lab Sample ID:	Q1842-21	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78.2
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/22/25 08:25	04/22/25 16:15	PB167686

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.26	J	1	1.51	2.56	mg/kg	FE053469.D
Aliphatic C9-C28	Aliphatic C9-C28	13.7		1	1.16	5.11	mg/kg	FE053469.D
Total AliphaticEPH	Total AliphaticEPH	15.9			2.67	7.67	mg/kg	
Total EPH	Total EPH	15.9			2.67	7.67	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053469.D	1	04/22/25	04/22/25	PB167686

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	13.7		1.16	5.11	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.26	J	1.51	2.56	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.1		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.1		40 - 140	80%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1842-21	Acq On:	22 Apr 2025 16:15
Client Sample ID:	PL-714-31	Operator:	YP\AJ
Data file:	FE053469.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	3.123	6.764	3491280	25.196	300	ug/ml
Aliphatic C12-C16	6.765	10.214	4732188	33.371	200	ug/ml
Aliphatic C16-C21	10.215	13.590	13481721	92.745	300	ug/ml
Aliphatic C21-C28	13.591	17.259	1267485	8.915	400	ug/ml
Aliphatic C28-C40	17.260	22.156	3419923	26.501	600	ug/ml
Aliphatic EPH	3.123	22.156	26392597	186.728		ug/ml
ortho-Terphenyl (SURR)	11.876	11.876	7234601	40.11		ug/ml
1-chlorooctadecane (SURR)	13.321	13.321	5692026	42.11		ug/ml
Aliphatic C9-C28	3.123	17.259	22972674	160.227	1200	ug/ml