

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	PL-714 Watchung	Date Received:	04/18/25
Client Sample ID:	PL-714-41	SDG No.:	Q1842
Lab Sample ID:	Q1842-40	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/22/25 08:25	04/22/25 19:47	PB167686

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	27.8		1	1.40	2.37	mg/kg FE053476.D
Aliphatic C9-C28	Aliphatic C9-C28	9.69		1	1.08	4.73	mg/kg FE053476.D
Total AliphaticEPH	Total AliphaticEPH	37.5			2.48	7.10	mg/kg
Total EPH	Total EPH	37.5			2.48	7.10	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053476.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	9.69		1.08	4.73	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.8		1.40	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.6		40 - 140	59%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.8		40 - 140	54%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1842-40	Acq On:	22 Apr 2025 19:47
Client Sample ID:	PL-714-41	Operator:	YP\AJ
Data file:	FE053476.D	Misc:	
Instrument:	FID_E	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.123	6.764	261974	1.891	300	ug/ml
Aliphatic C12-C16	6.765	10.214	1548616	10.921	200	ug/ml
Aliphatic C16-C21	10.215	13.590	6775356	46.61	300	ug/ml
Aliphatic C21-C28	13.591	17.259	9284575	65.304	400	ug/ml
Aliphatic C28-C40	17.260	22.156	45458484	352.257	600	ug/ml
Aliphatic EPH	3.123	22.156	63329005	476.982		ug/ml
ortho-Terphenyl (SURR)	11.874	11.874	4840392	26.84		ug/ml
1-chlorooctadecane (SURR)	13.319	13.319	3995796	29.56		ug/ml
Aliphatic C9-C28	3.123	17.259	17870521	124.726	1200	ug/ml