

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	PL-714 Watchung	Date Received:	04/18/25
Client Sample ID:	PL-714-24	SDG No.:	Q1842
Lab Sample ID:	Q1842-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	79.4
Sample Wt/Vol:	30.04	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 12:44	PB167686

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.52		1	1.48	2.52	mg/kg	FE053462.D
Aliphatic C9-C28	Aliphatic C9-C28	2.07	J	1	1.15	5.04	mg/kg	FE053462.D
Total AliphaticEPH	Total AliphaticEPH	5.59	J		2.63	7.56	mg/kg	
Total EPH	Total EPH	5.59	J		2.63	7.56	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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Analytical Method:	NJEPH	% Solid:	79.4
Sample Wt/Vol:	30.04 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
FE053462.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	2.07	J	1.15	5.04	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.52		1.48	2.52	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.1		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.8		40 - 140	82%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1842-05	Acq On:	22 Apr 2025 12:44
Client Sample ID:	PL-714-24	Operator:	YP\AJ
Data file:	FE053462.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.123	6.764	396003	2.858	300	ug/ml
Aliphatic C12-C16	6.765	10.214	765856	5.401	200	ug/ml
Aliphatic C16-C21	10.215	13.590	660520	4.544	300	ug/ml
Aliphatic C21-C28	13.591	17.259	1683339	11.84	400	ug/ml
Aliphatic C28-C40	17.260	22.156	5413633	41.95	600	ug/ml
Aliphatic EPH	3.123	22.156	8919351	66.593		ug/ml
ortho-Terphenyl (SURR)	11.877	11.877	7358648	40.8		ug/ml
1-chlorooctadecane (SURR)	13.322	13.322	5831249	43.14		ug/ml
Aliphatic C9-C28	3.123	17.259	3505718	24.643	1200	ug/ml