

Report of Analysis

Client:	PSEG	Date Collected:	04/16/25
Project:	PL-714 Watchung	Date Received:	04/17/25
Client Sample ID:	PL-714-20	SDG No.:	Q1832
Lab Sample ID:	Q1832-40	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.7
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/21/25 08:20	04/21/25 20:34	PB167658

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.81		1	1.39	2.35	mg/kg	FE053450.D
Aliphatic C9-C28	Aliphatic C9-C28	3.41	J	1	1.07	4.71	mg/kg	FE053450.D
Total AliphaticEPH	Total AliphaticEPH	6.22	J		2.46	7.07	mg/kg	
Total EPH	Total EPH	6.22	J		2.46	7.07	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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Sample Wt/Vol:	30.08 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
FE053450.D	1	04/21/25	04/21/25	PB167658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.41	J	1.07	4.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.81		1.39	2.35	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.0		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1832-40	Acq On:	21 Apr 2025 20:34
Client Sample ID:	PL-714-20	Operator:	YP\AJ
Data file:	FE053450.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	3.124	6.766	372054	2.685	300	ug/ml
Aliphatic C12-C16	6.767	10.216	607738	4.286	200	ug/ml
Aliphatic C16-C21	10.217	13.591	5287034	36.371	300	ug/ml
Aliphatic C21-C28	13.592	17.262	1127312	7.929	400	ug/ml
Aliphatic C28-C40	17.263	22.159	4616697	35.775	600	ug/ml
Aliphatic EPH	3.124	22.159	12010835	87.046		ug/ml
ortho-Terphenyl (SURR)	11.877	11.877	4860771	26.95		ug/ml
1-chlorooctadecane (SURR)	13.321	13.321	3783956	27.99		ug/ml
Aliphatic C9-C28	3.124	17.262	7394138	51.271	1200	ug/ml