

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	PL-714 Watchung	Date Received:	04/18/25
Client Sample ID:	PL-714-34	SDG No.:	Q1842
Lab Sample ID:	Q1842-27	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.4
Sample Wt/Vol:	30.07	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 17:36	PB167686

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	21.0		1	1.35	2.28	mg/kg FC068682.D
Aliphatic C9-C28	Aliphatic C9-C28	11.2		1	1.04	4.56	mg/kg FC068682.D
Total AliphaticEPH	Total AliphaticEPH	32.2			2.39	6.84	mg/kg
Total EPH	Total EPH	32.2			2.39	6.84	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
FC068682.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	11.2		1.04	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.0		1.35	2.28	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.8		40 - 140	68%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.6		40 - 140	61%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1842-27	Acq On:	22 Apr 2025 17:36
Client Sample ID:	PL-714-34	Operator:	YP/AJ
Data file:	FC068682.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.346	6.650	313580	2.978	300	ug/ml
Aliphatic C12-C16	6.651	10.053	1016877	9.938	200	ug/ml
Aliphatic C16-C21	10.054	13.423	4958376	50.178	300	ug/ml
Aliphatic C21-C28	13.424	17.089	7878405	83.648	400	ug/ml
Aliphatic C28-C40	17.090	22.104	24784546	275.743	600	ug/ml
Aliphatic EPH	3.346	22.104	38951784	422.485		ug/ml
ortho-Terphenyl (SURR)	11.722	11.722	3899739	30.63		ug/ml
1-chlorooctadecane (SURR)	13.157	13.157	3141240	33.82		ug/ml
Aliphatic C9-C28	3.346	17.089	14167238	146.742	1200	ug/ml