

Report of Analysis

Client:	PSEG	Date Collected:	01/28/25
Project:	PSEG Springfield - Front Poles - Roselle Park	Date Received:	01/28/25
Client Sample ID:	WC-5	SDG No.:	Q1209
Lab Sample ID:	Q1209-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.4
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
01/29/25 09:41	01/29/25 19:26	PB166336

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.36		1	2.03	2.26	mg/kg	FE052128.D
Aliphatic C9-C28	Aliphatic C9-C28	3.84	J	1	1.94	4.51	mg/kg	FE052128.D
Total AliphaticEPH	Total AliphaticEPH	6.20	J		3.97	6.77	mg/kg	
Total EPH	Total EPH	6.20	J		3.97	6.77	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
FE052128.D	1	01/29/25	01/29/25	PB166336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.84	J	1.94	4.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.36		2.03	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.7		40 - 140	51%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.8		40 - 140	50%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1209-05	Acq On:	29 Jan 2025 19:26
Client Sample ID:	WC-5	Operator:	YP\AJ
Data file:	FE052128.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.576	7.131	1409992	12.859	300	ug/ml
Aliphatic C12-C16	7.132	10.531	773677	6.383	200	ug/ml
Aliphatic C16-C21	10.532	13.874	4158612	31.7	300	ug/ml
Aliphatic C21-C28	13.875	17.518	792141	5.998	400	ug/ml
Aliphatic C28-C40	17.519	22.537	3363079	31.345	600	ug/ml
Aliphatic EPH	3.576	22.537	10497501	88.285		ug/ml
ortho-Terphenyl (SURR)	12.194	12.194	3537222	24.75		ug/ml
1-chlorooctadecane (SURR)	13.608	13.608	2946674	25.69		ug/ml
Aliphatic C9-C28	3.576	17.518	7134422	56.94	1200	ug/ml