

Report of Analysis

Client:	PSEG	Date Collected:	04/21/25
Project:	Lawrenceville HQ	Date Received:	04/21/25
Client Sample ID:	RBR200027	SDG No.:	Q1848
Lab Sample ID:	Q1848-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.9
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/22/25 09:40	04/22/25 22:47	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	26.9		1	1.32	2.24	mg/kg FE053480.D
Aliphatic C9-C28	Aliphatic C9-C28	23.0		1	1.02	4.49	mg/kg FE053480.D
Total AliphaticEPH	Total AliphaticEPH	49.9			2.34	6.73	mg/kg
Total EPH	Total EPH	49.9			2.34	6.73	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:	88.9
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
FE053480.D	1	04/22/25	04/22/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	23.0		1.02	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.9		1.32	2.24	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.5		40 - 140	59%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.0		40 - 140	54%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1848-01	Acq On:	22 Apr 2025 22:47
Client Sample ID:	RBR200027	Operator:	YP\AJ
Data file:	FE053480.D	Misc:	
Instrument:	FID_E	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.123	6.764	365397	2.637	300	ug/ml
Aliphatic C12-C16	6.765	10.214	1313177	9.26	200	ug/ml
Aliphatic C16-C21	10.215	13.590	9281828	63.852	300	ug/ml
Aliphatic C21-C28	13.591	17.259	32973200	231.92	400	ug/ml
Aliphatic C28-C40	17.260	22.156	46448990	359.932	600	ug/ml
Aliphatic EPH	3.123	22.156	90382592	667.603		ug/ml
ortho-Terphenyl (SURR)	11.873	11.873	4874846	27.03		ug/ml
1-chlorooctadecane (SURR)	13.318	13.318	3985054	29.48		ug/ml
Aliphatic C9-C28	3.123	17.259	43933602	307.669	1200	ug/ml