

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Somerset HQ	Date Received:	03/06/25
Client Sample ID:	RBR251372-E2	SDG No.:	Q1508
Lab Sample ID:	Q1508-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.1
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
03/07/25 09:15	03/07/25 17:54	PB167032

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	13.7		1	2.39	2.66	mg/kg FE052686.D
Aliphatic C9-C28	Aliphatic C9-C28	254		5	11.4	26.6	mg/kg FE052694.D
Total AliphaticEPH	Total AliphaticEPH	268			13.8	29.3	mg/kg
Total EPH	Total EPH	268			13.8	29.3	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052686.D	1	03/07/25	03/07/25	PB167032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	245	E	2.28	5.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.7		2.39	2.66	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	26.8		40 - 140	54%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.5		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1508-02	Acq On:	07 Mar 2025 17:54
Client Sample ID:	RBR251372-E2	Operator:	YP\AJ
Data file:	FE052686.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	3.151	6.796	4744868	30.426	300	ug/ml
Aliphatic C12-C16	6.797	10.250	28929447	190.202	200	ug/ml
Aliphatic C16-C21	10.251	13.630	319779951	2180	300	ug/ml
Aliphatic C21-C28	13.631	17.303	52297612	367.125	400	ug/ml
Aliphatic C28-C40	17.304	22.224	19733682	154.666	600	ug/ml
Aliphatic EPH	3.151	22.224	425485560	2920		ug/ml
ortho-Terphenyl (SURR)	11.917	11.917	4293144	25.47		ug/ml
1-chlorooctadecane (SURR)	13.360	13.360	3248116	26.75		ug/ml
Aliphatic C9-C28	3.151	17.303	405751878	2770	1200	ug/ml