

Report of Analysis

Client:	PSEG	Date Collected:	01/24/25
Project:	Metuchen Switch	Date Received:	01/24/25
Client Sample ID:	VNJ-237	SDG No.:	Q1183
Lab Sample ID:	Q1183-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.4
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/27/25 08:21	01/27/25 16:49	PB166257

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	1	2.03	2.26	mg/kg	FE052099.D
Aliphatic C9-C28	Aliphatic C9-C28	1.94	U	1	1.94	4.52	mg/kg	FE052099.D
Total AliphaticEPH	Total AliphaticEPH	3.97	U		3.97	6.78	mg/kg	
Total EPH	Total EPH	3.97	U		3.97	6.78	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052099.D	1	01/27/25	01/27/25	PB166257

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.94	4.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	2.03	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.9		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.5		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1183-01	Acq On:	27 Jan 2025 16:49
Client Sample ID:	VNJ-237	Operator:	YP\AJ
Data file:	FE052099.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.581	7.134	462418	4.217	300	ug/ml
Aliphatic C12-C16	7.135	10.532	536883	4.429	200	ug/ml
Aliphatic C16-C21	10.533	13.875	476633	3.633	300	ug/ml
Aliphatic C21-C28	13.876	17.518	558182	4.227	400	ug/ml
Aliphatic C28-C40	17.519	22.535	1968940	18.351	600	ug/ml
Aliphatic EPH	3.581	22.535	4003056	34.857		ug/ml
ortho-Terphenyl (SURR)	12.196	12.196	3926467	27.47		ug/ml
1-chlorooctadecane (SURR)	13.611	13.611	3202142	27.91		ug/ml
Aliphatic C9-C28	3.581	17.518	2034116	16.506	1200	ug/ml