

Report of Analysis

Client:	PSEG	Date Collected:	10/06/25
Project:	New Freedom Switch	Date Received:	10/06/25
Client Sample ID:	TP1-B	SDG No.:	Q3297
Lab Sample ID:	Q3297-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 10:00	10/07/25 15:46	PB170007

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	8.59		1	1.31	2.22	mg/kg FE056226.D
Aliphatic C9-C28	Aliphatic C9-C28	11.3		1	1.01	4.44	mg/kg FE056226.D
Total AliphaticEPH	Total AliphaticEPH	19.9			2.32	6.66	mg/kg
Total EPH	Total EPH	19.9			2.32	6.66	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:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056226.D	1	10/07/25	10/07/25	PB170007

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	11.3		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.59		1.31	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	55.6		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.6		40 - 140	105%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3297-03	Acq On:	07 Oct 2025 15:46
Client Sample ID:	TP1-B	Operator:	YP\AJ
Data file:	FE056226.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.307	6.942	1197774	8.554	300	ug/ml
Aliphatic C12-C16	6.943	10.393	1824190	11.894	200	ug/ml
Aliphatic C16-C21	10.394	13.770	19216041	115.843	300	ug/ml
Aliphatic C21-C28	13.771	17.441	2385989	16.064	400	ug/ml
Aliphatic C28-C40	17.442	22.445	15832477	116.2	600	ug/ml
Aliphatic EPH	3.307	22.445	40456471	268.555		ug/ml
ortho-Terphenyl (SURR)	12.072	12.072	9880606	52.65		ug/ml
1-chlorooctadecane (SURR)	13.508	13.508	7767280	55.65		ug/ml
Aliphatic C9-C28	3.307	17.441	24623994	152.355	1200	ug/ml