

Report of Analysis

Client:	PSEG	Date Collected:	03/26/25
Project:	Elizabeth Sub HQ	Date Received:	03/26/25
Client Sample ID:	72-11998-E2	SDG No.:	Q1657
Lab Sample ID:	Q1657-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.2
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
03/28/25 08:22	03/28/25 18:07	PB167363

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	11.0		1	1.34	2.26	mg/kg FE053050.D
Aliphatic C9-C28	Aliphatic C9-C28	5.00		1	1.03	4.52	mg/kg FE053050.D
Total AliphaticEPH	Total AliphaticEPH	16.0			2.37	6.78	mg/kg
Total EPH	Total EPH	16.0			2.37	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053050.D	1	03/28/25	03/28/25	PB167363

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.00		1.03	4.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.0		1.34	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.0		40 - 140	62%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.5		40 - 140	59%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1657-02	Acq On:	28 Mar 2025 18:07
Client Sample ID:	72-11998-E2	Operator:	YP\AJ
Data file:	FE053050.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.142	6.783	1158791	7.431	300	ug/ml
Aliphatic C12-C16	6.784	10.234	970936	6.384	200	ug/ml
Aliphatic C16-C21	10.235	13.611	2139085	14.596	300	ug/ml
Aliphatic C21-C28	13.612	17.280	5397801	37.892	400	ug/ml
Aliphatic C28-C40	17.281	22.183	18612221	145.876	600	ug/ml
Aliphatic EPH	3.142	22.183	28278834	212.179		ug/ml
ortho-Terphenyl (SURR)	11.898	11.898	4977838	29.53		ug/ml
1-chlorooctadecane (SURR)	13.342	13.342	3759934	30.96		ug/ml
Aliphatic C9-C28	3.142	17.280	9666613	66.303	1200	ug/ml