

Report of Analysis

Client:	PSEG	Date Collected:	04/10/25
Project:	NYE Avenue Substation	Date Received:	04/10/25
Client Sample ID:	TP-22-EPH	SDG No.:	Q1779
Lab Sample ID:	Q1779-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/11/25 09:40	04/11/25 15:41	PB167562

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.89		1	1.33	2.25	mg/kg	FE053324.D
Aliphatic C9-C28	Aliphatic C9-C28	3.35	J	1	1.02	4.49	mg/kg	FE053324.D
Total AliphaticEPH	Total AliphaticEPH	12.2			2.35	6.74	mg/kg	
Total EPH	Total EPH	12.2			2.35	6.74	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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Sample Wt/Vol:	30.01 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
FE053324.D	1	04/11/25	04/11/25	PB167562

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.35	J	1.02	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.89		1.33	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.4		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.9		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1779-02	Acq On:	11 Apr 2025 15:41
Client Sample ID:	TP-22-EPH	Operator:	YP\AJ
Data file:	FE053324.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	3.137	6.780	618551	3.964	300	ug/ml
Aliphatic C12-C16	6.781	10.230	1649682	10.738	200	ug/ml
Aliphatic C16-C21	10.231	13.608	2100705	14.554	300	ug/ml
Aliphatic C21-C28	13.609	17.279	2076152	15.454	400	ug/ml
Aliphatic C28-C40	17.280	22.185	14749153	118.699	600	ug/ml
Aliphatic EPH	3.137	22.185	21194243	163.409		ug/ml
ortho-Terphenyl (SURR)	11.891	11.891	5199895	31.92		ug/ml
1-chlorooctadecane (SURR)	13.335	13.335	4129720	34.4		ug/ml
Aliphatic C9-C28	3.137	17.279	6445090	44.71	1200	ug/ml