

Report of Analysis

Client:	PSEG	Date Collected:	09/04/25
Project:	Port St Substation	Date Received:	09/04/25
Client Sample ID:	TP-1	SDG No.:	Q3023
Lab Sample ID:	Q3023-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.1
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
09/05/25 09:30	09/08/25 11:13	PB169567

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	56.8		5	6.68	11.3	mg/kg	FE055712.D
Aliphatic C9-C28	Aliphatic C9-C28	3.40	J	1	1.03	4.53	mg/kg	FE055699.D
Total AliphaticEPH	Total AliphaticEPH	60.2			7.71	15.8	mg/kg	
Total EPH	Total EPH	60.2			7.71	15.8	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
FE055699.D	1	09/05/25	09/05/25	PB169567

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.40	J	1.03	4.53	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	51.3	E	1.34	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.4		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.2		40 - 140	68%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3023-01	Acq On:	05 Sep 2025 20:12
Client Sample ID:	TP-1	Operator:	YP\AJ
Data file:	FE055699.D	Misc:	
Instrument:	FID_E	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.945	751158	5.85	300	ug/ml
Aliphatic C12-C16	6.946	10.397	1132480	8.383	200	ug/ml
Aliphatic C16-C21	10.398	13.775	1637813	11.357	300	ug/ml
Aliphatic C21-C28	13.776	17.446	2795293	19.515	400	ug/ml
Aliphatic C28-C40	17.447	22.456	93524309	679.092	600	ug/ml
Aliphatic EPH	3.311	22.456	99841053	724.197		ug/ml
ortho-Terphenyl (SURR)	12.077	12.077	5611977	34.16		ug/ml
1-chlorooctadecane (SURR)	13.513	13.513	4306780	34.44		ug/ml
Aliphatic C9-C28	3.311	17.446	6316744	45.105	1200	ug/ml