

Report of Analysis

Client:	PSEG	Date Collected:	05/30/25
Project:	PSEG East Edison Test Pits	Date Received:	05/30/25
Client Sample ID:	TP06-MHQ-EPH	SDG No.:	Q2172
Lab Sample ID:	Q2172-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/02/25 09:15	06/02/25 16:48	PB168231

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.02		1	1.36	2.31	mg/kg	FE054125.D
Aliphatic C9-C28	Aliphatic C9-C28	3.22	J	1	1.05	4.63	mg/kg	FE054125.D
Total AliphaticEPH	Total AliphaticEPH	9.24			2.41	6.94	mg/kg	
Total EPH	Total EPH	9.24			2.41	6.94	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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Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.04 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
FE054125.D	1	06/02/25	06/02/25	PB168231

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.22	J	1.05	4.63	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.02		1.36	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	65.7		40 - 140	131%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	60.0		40 - 140	120%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2172-03	Acq On:	02 Jun 2025 16:48
Client Sample ID:	TP06-MHQ-EPH	Operator:	YP\AJ
Data file:	FE054125.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	3.087	6.734	365237	2.694	300	ug/ml
Aliphatic C12-C16	6.735	10.181	1729835	12.819	200	ug/ml
Aliphatic C16-C21	10.182	13.556	927852	7.034	300	ug/ml
Aliphatic C21-C28	13.557	17.226	2384539	19.203	400	ug/ml
Aliphatic C28-C40	17.227	22.106	9022421	78.163	600	ug/ml
Aliphatic EPH	3.087	22.106	14429884	119.913		ug/ml
ortho-Terphenyl (SURR)	11.843	11.843	9752988	60.01		ug/ml
1-chlorooctadecane (SURR)	13.288	13.288	7788748	65.7		ug/ml
Aliphatic C9-C28	3.087	17.226	5407463	41.75	1200	ug/ml