

Report of Analysis

Client:	PSEG	Date Collected:	05/19/25
Project:	PSEG East Edison Test Pits	Date Received:	05/20/25
Client Sample ID:	TP-1-MHE-E2	SDG No.:	Q2101
Lab Sample ID:	Q2101-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.7
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/22/25 09:30	05/22/25 17:41	PB168127

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.30		1	1.24	2.11	mg/kg	FE053980.D
Aliphatic C9-C28	Aliphatic C9-C28	1.87	J	1	0.96	4.21	mg/kg	FE053980.D
Total AliphaticEPH	Total AliphaticEPH	6.17	J		2.20	6.32	mg/kg	
Total EPH	Total EPH	6.17	J		2.20	6.32	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
FE053980.D	1	05/22/25	05/22/25	PB168127

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.87	J	0.96	4.21	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.30		1.24	2.11	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	49.8		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.8		40 - 140	92%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2101-02	Acq On:	22 May 2025 17:41
Client Sample ID:	TP-1-MHE-E2	Operator:	YP\AJ
Data file:	FE053980.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	3.094	6.735	207018	1.527	300	ug/ml
Aliphatic C12-C16	6.736	10.183	965720	7.157	200	ug/ml
Aliphatic C16-C21	10.184	13.557	706543	5.356	300	ug/ml
Aliphatic C21-C28	13.558	17.224	1738914	14.004	400	ug/ml
Aliphatic C28-C40	17.225	22.098	7065308	61.208	600	ug/ml
Aliphatic EPH	3.094	22.098	10683503	89.252		ug/ml
ortho-Terphenyl (SURR)	11.844	11.844	7438165	45.77		ug/ml
1-chlorooctadecane (SURR)	13.289	13.289	5908050	49.84		ug/ml
Aliphatic C9-C28	3.094	17.224	3618195	28.044	1200	ug/ml