

Report of Analysis

Client:	PSEG	Date Collected:	06/03/25
Project:	Kearny Switch	Date Received:	06/03/25
Client Sample ID:	72-11978	SDG No.:	Q2199
Lab Sample ID:	Q2199-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/04/25 11:45	06/05/25 13:41	PB168287

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.41		1	1.29	2.18	mg/kg	FE054190.D
Aliphatic C9-C28	Aliphatic C9-C28	4.37	U	1	0.99	4.37	mg/kg	FE054190.D
Total AliphaticEPH	Total AliphaticEPH	7.41			2.28	6.55	mg/kg	
Total EPH	Total EPH	7.41			2.28	6.55	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054190.D	1	06/04/25	06/05/25	PB168287

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	0.99	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.41		1.29	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.4		40 - 140	55%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.6		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2199-05	Acq On:	05 Jun 2025 13:41
Client Sample ID:	72-11978	Operator:	YP\AJ
Data file:	FE054190.D	Misc:	
Instrument:	FID_E	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.084	6.729	151485	1.117	300	ug/ml
Aliphatic C12-C16	6.730	10.176	364404	2.7	200	ug/ml
Aliphatic C16-C21	10.177	13.550	394826	2.993	300	ug/ml
Aliphatic C21-C28	13.551	17.218	671749	5.41	400	ug/ml
Aliphatic C28-C40	17.219	22.088	11752569	101.815	600	ug/ml
Aliphatic EPH	3.084	22.088	13335033	114.035		ug/ml
ortho-Terphenyl (SURR)	11.837	11.837	4155574	25.57		ug/ml
1-chlorooctadecane (SURR)	13.282	13.282	3251524	27.43		ug/ml
Aliphatic C9-C28	3.084	17.218	1582464	12.22	1200	ug/ml