

Report of Analysis

Client:	PSEG	Date Collected:	06/03/25
Project:	Kearny Switch	Date Received:	06/03/25
Client Sample ID:	VNJ-231	SDG No.:	Q2199
Lab Sample ID:	Q2199-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.3
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
06/04/25 11:45	06/05/25 13:11	PB168287

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.21		1	1.32	2.23	mg/kg	FE054189.D
Aliphatic C9-C28	Aliphatic C9-C28	2.40	J	1	1.02	4.47	mg/kg	FE054189.D
Total AliphaticEPH	Total AliphaticEPH	10.6			2.34	6.71	mg/kg	
Total EPH	Total EPH	10.6			2.34	6.71	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
FE054189.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	2.40	J	1.02	4.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.21		1.32	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.1		40 - 140	54%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.7		40 - 140	49%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2199-03	Acq On:	05 Jun 2025 13:11
Client Sample ID:	VNJ-231	Operator:	YP\AJ
Data file:	FE054189.D	Misc:	
Instrument:	FID_E	ALS Vial:	8
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.084	6.729	268811	1.983	300	ug/ml
Aliphatic C12-C16	6.730	10.176	377010	2.794	200	ug/ml
Aliphatic C16-C21	10.177	13.550	1289128	9.773	300	ug/ml
Aliphatic C21-C28	13.551	17.218	2432390	19.588	400	ug/ml
Aliphatic C28-C40	17.219	22.088	12717283	110.172	600	ug/ml
Aliphatic EPH	3.084	22.088	17084622	144.31		ug/ml
ortho-Terphenyl (SURR)	11.837	11.837	4020596	24.74		ug/ml
1-chlorooctadecane (SURR)	13.282	13.282	3208048	27.06		ug/ml
Aliphatic C9-C28	3.084	17.218	4367339	34.138	1200	ug/ml