

Report of Analysis

Client:	PSEG	Date Collected:	07/31/25
Project:	Waverly Substation	Date Received:	07/31/25
Client Sample ID:	VNJ-253	SDG No.:	Q2734
Lab Sample ID:	Q2734-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/01/25 12:35	08/04/25 11:08	PB169089

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	59.0		2	2.61	4.43	mg/kg FE055122.D
Aliphatic C9-C28	Aliphatic C9-C28	8.18		1	1.01	4.44	mg/kg FE055116.D
Total AliphaticEPH	Total AliphaticEPH	67.2			3.62	8.87	mg/kg
Total EPH	Total EPH	67.2			3.62	8.87	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:	90.1
Sample Wt/Vol:	30.07 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
FE055116.D	1	08/01/25	08/01/25	PB169089

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	8.18		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	63.7	E	1.31	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.6		40 - 140	57%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2734-01	Acq On:	01 Aug 2025 19:38
Client Sample ID:	VNJ-253	Operator:	YP\AJ
Data file:	FE055116.D	Misc:	
Instrument:	FID_E	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.522	6.957	523712	4.485	300	ug/ml
Aliphatic C12-C16	6.958	10.409	1108036	8.848	200	ug/ml
Aliphatic C16-C21	10.410	13.787	5083707	40.218	300	ug/ml
Aliphatic C21-C28	13.788	17.458	6884446	57.13	400	ug/ml
Aliphatic C28-C40	17.459	22.480	98347967	862.798	600	ug/ml
Aliphatic EPH	3.522	22.480	111947868	973.478		ug/ml
ortho-Terphenyl (SURR)	12.087	12.087	4077148	28.55		ug/ml
1-chlorooctadecane (SURR)	13.523	13.523	3295371	30.65		ug/ml
Aliphatic C9-C28	3.522	17.458	13599901	110.681	1200	ug/ml