

Report of Analysis

Client:	PSEG	Date Collected:	08/15/25
Project:	Hackensack Sub HQ	Date Received:	08/15/25
Client Sample ID:	VNJ-232	SDG No.:	Q2884
Lab Sample ID:	Q2884-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.7
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/19/25 08:05	08/19/25 14:31	PB169296

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	10.1		1	1.23	2.09	mg/kg FE055382.D
Aliphatic C9-C28	Aliphatic C9-C28	10.1		1	0.95	4.17	mg/kg FE055382.D
Total AliphaticEPH	Total AliphaticEPH	20.2			2.18	6.26	mg/kg
Total EPH	Total EPH	20.2			2.18	6.26	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
FE055382.D	1	08/19/25	08/19/25	PB169296

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	10.1		0.95	4.17	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.1		1.23	2.09	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.7		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.9		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2884-01	Acq On:	19 Aug 2025 14:31
Client Sample ID:	VNJ-232	Operator:	YP\AJ
Data file:	FE055382.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	3.317	6.951	615715	5.272	300	ug/ml
Aliphatic C12-C16	6.952	10.402	1364086	10.893	200	ug/ml
Aliphatic C16-C21	10.403	13.781	5949668	47.068	300	ug/ml
Aliphatic C21-C28	13.782	17.453	9908143	82.221	400	ug/ml
Aliphatic C28-C40	17.454	22.471	16510422	144.845	600	ug/ml
Aliphatic EPH	3.317	22.471	34348034	290.299		ug/ml
ortho-Terphenyl (SURR)	12.080	12.080	4986238	34.92		ug/ml
1-chlorooctadecane (SURR)	13.517	13.517	4050813	37.67		ug/ml
Aliphatic C9-C28	3.317	17.453	17837612	145.454	1200	ug/ml