

## Report of Analysis

Client:	PSEG	Date Collected:	05/07/25
Project:	OR-636 Oradell and New Milford	Date Received:	05/08/25
Client Sample ID:	OR-636-21	SDG No.:	Q1983
Lab Sample ID:	Q1983-41	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06      Units: g	Final Vol:	2000      uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/12/25 08:30	05/12/25 14:35	PB167945

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
<b>TARGETS</b>								
Aliphatic C28-C40	Aliphatic C28-C40	2.26	U	1	1.33	2.26	mg/kg	FE053766.D
Aliphatic C9-C28	Aliphatic C9-C28	1.48	J	1	1.03	4.51	mg/kg	FE053766.D
Total AliphaticEPH	Total AliphaticEPH	6.77	U		2.36	6.77	mg/kg	
Total EPH	Total EPH	6.77	U		2.36	6.77	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
FE053766.D	1	05/12/25	05/12/25	PB167945

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
Aliphatic C9-C28	Aliphatic C9-C28	1.48	J	1.03	4.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.26	U	1.33	2.26	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	53.9		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.0		40 - 140	104%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1983-41	Acq On:	12 May 2025 14:35
Client Sample ID:	OR-636-21	Operator:	YP\AJ
Data file:	FE053766.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.103	6.745	399482	2.883	300	ug/ml
Aliphatic C12-C16	6.746	10.194	1732019	12.214	200	ug/ml
Aliphatic C16-C21	10.195	13.568	662268	4.556	300	ug/ml
Aliphatic C21-C28	13.569	17.237	1049916	7.385	400	ug/ml
Aliphatic C28-C40	17.238	22.126	2271007	17.598	600	ug/ml
Aliphatic EPH	3.103	22.126	6114692	44.636		ug/ml
ortho-Terphenyl (SURR)	11.858	11.858	9381591	52.02		ug/ml
1-chlorooctadecane (SURR)	13.302	13.302	7278855	53.85		ug/ml
Aliphatic C9-C28	3.103	17.237	3843685	27.038	1200	ug/ml