

## 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-636-13	SDG No.:	Q1983
Lab Sample ID:	Q1983-27	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94
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
05/09/25 09:02	05/09/25 18:02	PB167926

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
<b>TARGETS</b>								
Aliphatic C28-C40	Aliphatic C28-C40	2.31		1	1.25	2.12	mg/kg	FE053753.D
Aliphatic C9-C28	Aliphatic C9-C28	4.25	U	1	0.97	4.25	mg/kg	FE053753.D
Total AliphaticEPH	Total AliphaticEPH	2.31	J		2.22	6.37	mg/kg	
Total EPH	Total EPH	2.31	J		2.22	6.37	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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Sample Wt/Vol:	30.05      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
FE053753.D	1	05/09/25	05/09/25	PB167926

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	0.97	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.31		1.25	2.12	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	41.1		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.9		40 - 140	78%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1983-27	Acq On:	09 May 2025 18:02
Client Sample ID:	OR-636-13	Operator:	YP\AJ
Data file:	FE053753.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	3.105	6.747	313321	2.261	300	ug/ml
Aliphatic C12-C16	6.748	10.195	1011510	7.133	200	ug/ml
Aliphatic C16-C21	10.196	13.570	453310	3.118	300	ug/ml
Aliphatic C21-C28	13.571	17.238	943716	6.638	400	ug/ml
Aliphatic C28-C40	17.239	22.119	4213060	32.647	600	ug/ml
Aliphatic EPH	3.105	22.119	6934917	51.797		ug/ml
ortho-Terphenyl (SURR)	11.858	11.858	7021279	38.93		ug/ml
1-chlorooctadecane (SURR)	13.303	13.303	5556318	41.1		ug/ml
Aliphatic C9-C28	3.105	17.238	2721857	19.15	1200	ug/ml