

## 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-636-05	SDG No.:	Q1983
Lab Sample ID:	Q1983-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.04	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 18:56	PB167926

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
<b>TARGETS</b>							
Aliphatic C28-C40	Aliphatic C28-C40	2.89		1	1.30	2.20	mg/kg FC068819.D
Aliphatic C9-C28	Aliphatic C9-C28	5.80		1	1.00	4.41	mg/kg FC068819.D
Total AliphaticEPH	Total AliphaticEPH	8.69			2.30	6.61	mg/kg
Total EPH	Total EPH	8.69			2.30	6.61	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
FC068819.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	5.80		1.00	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.89		1.30	2.20	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	47.3		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.2		40 - 140	86%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1983-10	Acq On:	09 May 2025 18:56
Client Sample ID:	OR-636-05	Operator:	YP/AJ
Data file:	FC068819.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.342	6.642	298859	3.015	300	ug/ml
Aliphatic C12-C16	6.643	10.043	1087366	11.951	200	ug/ml
Aliphatic C16-C21	10.044	13.410	1394436	16.26	300	ug/ml
Aliphatic C21-C28	13.411	17.074	3963777	47.704	400	ug/ml
Aliphatic C28-C40	17.075	22.075	3325293	39.296	600	ug/ml
Aliphatic EPH	3.342	22.075	10069731	118.225		ug/ml
ortho-Terphenyl (SURR)	11.711	11.711	4931226	43.2		ug/ml
1-chlorooctadecane (SURR)	13.144	13.144	3794625	47.3		ug/ml
Aliphatic C9-C28	3.342	17.074	6744438	78.93	1200	ug/ml