

Report of Analysis

Client:	PSEG	Date Collected:	10/28/25
Project:	South Mahwah Switch	Date Received:	10/28/25
Client Sample ID:	SOUTH-MAHWAH-WATER	SDG No.:	Q3477
Lab Sample ID:	Q3477-03	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	990 mL	Test:	EPH
Prep Method :	SW3510	Final Vol:	2000 uL
		Prep Date :	10/30/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C9-C12	Aliphatic C9-C12	30.3	U	1	8.36	30.3	ug/l	FC070102.D	10/31/25 13:51	PB170345
Aliphatic C12-C16	Aliphatic C12-C16	51.7		1	13.6	20.2	ug/l	FC070102.D	10/31/25 13:51	PB170345
Aliphatic C16-C21	Aliphatic C16-C21	10.5	J	1	8.42	30.3	ug/l	FC070102.D	10/31/25 13:51	PB170345
Aliphatic C21-C28	Aliphatic C21-C28	40.4	U	1	12.6	40.4	ug/l	FC070102.D	10/31/25 13:51	PB170345
Aliphatic C28-C40	Aliphatic C28-C40	78.8		1	24.0	60.6	ug/l	FC070102.D	10/31/25 13:51	PB170345
Aromatic C10-C12	Aromatic C10-C12	5.33	J	1	2.09	20.2	ug/l	FD049865.D	10/31/25 13:51	PB170345
Aromatic C12-C16	Aromatic C12-C16	8.27	J	1	4.30	30.3	ug/l	FD049865.D	10/31/25 13:51	PB170345
Aromatic C16-C21	Aromatic C16-C21	126		1	8.35	50.5	ug/l	FD049865.D	10/31/25 13:51	PB170345
Aromatic C21-C36	Aromatic C21-C36	80.8	U	1	24.0	80.8	ug/l	FD049865.D	10/31/25 13:51	PB170345
Total AliphaticEPH	Total AliphaticEPH	141	J		67.0	182	ug/l			
Total AromaticEPH	Total AromaticEPH	140	J		38.7	182	ug/l			
Total EPH	Total EPH	281	J		106	364	ug/l			

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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Aliphatic C21-C28	Aliphatic C21-C28	40.4	U	1	12.6	40.4	ug/l	10/31/25	PB170345
Aliphatic C28-C40	Aliphatic C28-C40	78.8		1	24.0	60.6	ug/l	10/31/25	PB170345
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	29.1			40 - 140	58%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	0.00			40 - 140	0%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3477-03	Acq On:	31 Oct 2025 13:51
Client Sample ID:	SOUTH-MAHWAH-WATE	Operator:	YP/AJ
Data file:	FC070102.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.281	6.574	504250	3.483	300	ug/ml
Aliphatic C12-C16	6.575	9.976	4194131	25.608	200	ug/ml
Aliphatic C16-C21	9.977	13.346	837983	5.174	300	ug/ml
Aliphatic C21-C28	13.347	17.012	748461	5.087	400	ug/ml
Aliphatic C28-C40	17.013	21.974	4198436	39.019	600	ug/ml
Aliphatic EPH	3.281	21.974	10483261	78.371		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.079	13.079	3943886	29.05		ug/ml
Aliphatic C9-C28	3.281	17.012	6284825	39.352	1200	ug/ml