

Report of Analysis

Client:	PSEG	Date Collected:	06/25/25
Project:	PSEG 104 Hamilton- Paterson	Date Received:	06/25/25
Client Sample ID:	WC-1-EPH	SDG No.:	Q2414
Lab Sample ID:	Q2414-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/26/25 08:50	06/27/25 0:09	PB168624

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	9.81		1	1.31	2.22	mg/kg	FC069302.D
Aliphatic C9-C28	Aliphatic C9-C28	5.83		1	1.01	4.44	mg/kg	FC069302.D
Total AliphaticEPH	Total AliphaticEPH	15.6			2.32	6.66	mg/kg	
Total EPH	Total EPH	15.6			2.32	6.66	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
FC069302.D	1	06/26/25	06/27/25	PB168624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.83		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.81		1.31	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.4		40 - 140	55%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.0		40 - 140	52%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2414-02	Acq On:	27 Jun 2025 00:09
Client Sample ID:	WC-1-EPH	Operator:	YP/AJ
Data file:	FC069302.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.305	6.604	3257464	22.208	300	ug/ml
Aliphatic C12-C16	6.605	10.008	841947	5.288	200	ug/ml
Aliphatic C16-C21	10.009	13.377	5942762	38.481	300	ug/ml
Aliphatic C21-C28	13.378	17.043	1695979	12.66	400	ug/ml
Aliphatic C28-C40	17.044	22.026	12180720	132.22	600	ug/ml
Aliphatic EPH	3.305	22.026	23918872	210.857		ug/ml
ortho-Terphenyl (SURR)	11.678	11.678	4488809	25.98		ug/ml
1-chlorooctadecane (SURR)	13.113	13.113	3579798	27.4		ug/ml
Aliphatic C9-C28	3.305	17.043	11738152	78.637	1200	ug/ml