

Report of Analysis

Client:	PSEG	Date Collected:	09/12/25
Project:	Pennsauken M&R	Date Received:	09/12/25
Client Sample ID:	12/9B-EPH1	SDG No.:	Q3091
Lab Sample ID:	Q3091-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
09/15/25 08:30	09/15/25 20:09	PB169683

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.04		1	1.32	2.24	mg/kg	FE055838.D
Aliphatic C9-C28	Aliphatic C9-C28	4.48	U	1	1.02	4.48	mg/kg	FE055838.D
Total AliphaticEPH	Total AliphaticEPH	8.04			2.34	6.72	mg/kg	
Total EPH	Total EPH	8.04			2.34	6.72	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
FE055838.D	1	09/15/25	09/15/25	PB169683

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.02	4.48	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.04		1.32	2.24	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	23.1		40 - 140	46%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.0		40 - 140	46%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3091-09	Acq On:	15 Sep 2025 20:09
Client Sample ID:	12/9B-EPH1	Operator:	YP\AJ
Data file:	FE055838.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.312	6.945	445813	3.472	300	ug/ml
Aliphatic C12-C16	6.946	10.397	562383	4.163	200	ug/ml
Aliphatic C16-C21	10.398	13.775	479458	3.325	300	ug/ml
Aliphatic C21-C28	13.776	17.446	1075744	7.51	400	ug/ml
Aliphatic C28-C40	17.447	22.458	14813075	107.56	600	ug/ml
Aliphatic EPH	3.312	22.458	17376473	126.029		ug/ml
ortho-Terphenyl (SURR)	12.070	12.070	3777825	23		ug/ml
1-chlorooctadecane (SURR)	13.506	13.506	2890925	23.12		ug/ml
Aliphatic C9-C28	3.312	17.446	2563398	18.47	1200	ug/ml