

Report of Analysis

Client:	PSEG	Date Collected:	06/02/25
Project:	BU-703 Willingboro	Date Received:	06/04/25
Client Sample ID:	BU-703-13B	SDG No.:	Q2207
Lab Sample ID:	Q2207-40	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76.5
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/05/25 10:10	06/05/25 22:49	PB168301

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.62		1	1.54	2.61	mg/kg	FE054207.D
Aliphatic C9-C28	Aliphatic C9-C28	1.76	J	1	1.19	5.23	mg/kg	FE054207.D
Total AliphaticEPH	Total AliphaticEPH	6.38	J		2.73	7.84	mg/kg	
Total EPH	Total EPH	6.38	J		2.73	7.84	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
FE054207.D	1	06/05/25	06/05/25	PB168301

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.76	J	1.19	5.23	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.62		1.54	2.61	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	55.1		40 - 140	110%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.2		40 - 140	92%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2207-40	Acq On:	05 Jun 2025 22:49
Client Sample ID:	BU-703-13B	Operator:	YP\AJ
Data file:	FE054207.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	3.084	6.729	273435	2.017	300	ug/ml
Aliphatic C12-C16	6.730	10.176	745672	5.526	200	ug/ml
Aliphatic C16-C21	10.177	13.550	501884	3.805	300	ug/ml
Aliphatic C21-C28	13.551	17.218	1353040	10.896	400	ug/ml
Aliphatic C28-C40	17.219	22.088	6119457	53.014	600	ug/ml
Aliphatic EPH	3.084	22.088	8993488	75.258		ug/ml
ortho-Terphenyl (SURR)	11.836	11.836	7503682	46.17		ug/ml
1-chlorooctadecane (SURR)	13.281	13.281	6529848	55.08		ug/ml
Aliphatic C9-C28	3.084	17.218	2874031	22.244	1200	ug/ml