

Report of Analysis

Client:	PSEG	Date Collected:	06/02/25
Project:	BU-703 Willingboro	Date Received:	06/04/25
Client Sample ID:	BU-703-23B	SDG No.:	Q2208
Lab Sample ID:	Q2208-24	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83.2
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
06/06/25 09:00	06/06/25 14:19	PB168308

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.25		1	1.42	2.40	mg/kg	FE054218.D
Aliphatic C9-C28	Aliphatic C9-C28	2.06	J	1	1.09	4.80	mg/kg	FE054218.D
Total AliphaticEPH	Total AliphaticEPH	9.31			2.51	7.20	mg/kg	
Total EPH	Total EPH	9.31			2.51	7.20	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
FE054218.D	1	06/06/25	06/06/25	PB168308

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.06	J	1.09	4.80	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.25		1.42	2.40	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	47.3		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.6		40 - 140	85%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2208-24	Acq On:	06 Jun 2025 14:19
Client Sample ID:	BU-703-23B	Operator:	YP\AJ
Data file:	FE054218.D	Misc:	
Instrument:	FID_E	ALS Vial:	8
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.080	6.725	296762	2.189	300	ug/ml
Aliphatic C12-C16	6.726	10.172	1085808	8.047	200	ug/ml
Aliphatic C16-C21	10.173	13.547	614530	4.659	300	ug/ml
Aliphatic C21-C28	13.548	17.214	1346839	10.846	400	ug/ml
Aliphatic C28-C40	17.215	22.084	10454449	90.569	600	ug/ml
Aliphatic EPH	3.080	22.084	13798388	116.309		ug/ml
ortho-Terphenyl (SURR)	11.835	11.835	6919880	42.58		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	5602367	47.26		ug/ml
Aliphatic C9-C28	3.080	17.214	3343939	25.741	1200	ug/ml