

Report of Analysis

Client:	PSEG	Date Collected:	06/02/25
Project:	BU-703 Willingboro	Date Received:	06/04/25
Client Sample ID:	BU-703-01A	SDG No.:	Q2207
Lab Sample ID:	Q2207-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.8
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/05/25 08:30	06/05/25 17:14	PB168297

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	17.2		1	1.37	2.33	mg/kg	FE054196.D
Aliphatic C9-C28	Aliphatic C9-C28	1.83	J	1	1.06	4.65	mg/kg	FE054196.D
Total AliphaticEPH	Total AliphaticEPH	19.0			2.43	6.98	mg/kg	
Total EPH	Total EPH	19.0			2.43	6.98	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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Analytical Method:	NJEPH	% Solid:	85.8
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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054196.D	1	06/05/25	06/05/25	PB168297

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.83	J	1.06	4.65	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	17.2		1.37	2.33	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.8		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.9		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2207-03	Acq On:	05 Jun 2025 17:14
Client Sample ID:	BU-703-01A	Operator:	YP\AJ
Data file:	FE054196.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.084	6.729	295104	2.177	300	ug/ml
Aliphatic C12-C16	6.730	10.176	738469	5.473	200	ug/ml
Aliphatic C16-C21	10.177	13.550	525187	3.981	300	ug/ml
Aliphatic C21-C28	13.551	17.218	1488984	11.991	400	ug/ml
Aliphatic C28-C40	17.219	22.088	25517585	221.064	600	ug/ml
Aliphatic EPH	3.084	22.088	28565329	244.685		ug/ml
ortho-Terphenyl (SURR)	11.837	11.837	6164536	37.93		ug/ml
1-chlorooctadecane (SURR)	13.282	13.282	4957686	41.82		ug/ml
Aliphatic C9-C28	3.084	17.218	3047744	23.622	1200	ug/ml