

Report of Analysis

Client:	PSEG	Date Collected:	09/25/25
Project:	PSEG Essex Street - Milburn	Date Received:	09/25/25
Client Sample ID:	SU-ESM-02	SDG No.:	Q3208
Lab Sample ID:	Q3208-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/26/25 09:35	09/30/25 11:40	PB169859

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	52.6		5	6.37	10.8	mg/kg FE056083.D
Aliphatic C9-C28	Aliphatic C9-C28	6.67		1	0.98	4.32	mg/kg FE056051.D
Total AliphaticEPH	Total AliphaticEPH	59.3			7.35	15.1	mg/kg
Total EPH	Total EPH	59.3			7.35	15.1	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
FE056051.D	1	09/26/25	09/29/25	PB169859

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.67		0.98	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	55.4	E	1.27	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.3		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.4		40 - 140	59%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3208-04	Acq On:	29 Sep 2025 17:54
Client Sample ID:	SU-ESM-02	Operator:	YP\AJ
Data file:	FE056051.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	664852	4.748	300	ug/ml
Aliphatic C12-C16	6.947	10.396	1593565	10.39	200	ug/ml
Aliphatic C16-C21	10.397	13.773	5238654	31.581	300	ug/ml
Aliphatic C21-C28	13.774	17.443	6835071	46.019	400	ug/ml
Aliphatic C28-C40	17.444	22.449	104867262	769.657	600	ug/ml
Aliphatic EPH	3.315	22.449	119199404	862.395		ug/ml
ortho-Terphenyl (SURR)	12.074	12.074	5521732	29.43		ug/ml
1-chlorooctadecane (SURR)	13.511	13.511	4500717	32.25		ug/ml
Aliphatic C9-C28	3.315	17.443	14332142	92.738	1200	ug/ml