

Report of Analysis

Client:	PSEG	Date Collected:	04/02/25
Project:	PSEG Clay Street	Date Received:	04/03/25
Client Sample ID:	Z-05A	SDG No.:	Q1712
Lab Sample ID:	Q1712-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.5
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/04/25 09:00	04/07/25 11:13	PB167458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	77.4		5	6.73	11.4	mg/kg FE053207.D
Aliphatic C9-C28	Aliphatic C9-C28	249		5	5.19	22.8	mg/kg FE053207.D
Total AliphaticEPH	Total AliphaticEPH	327			11.9	34.2	mg/kg
Total EPH	Total EPH	327			11.9	34.2	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053193.D	1	04/04/25	04/04/25	PB167458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	225	E	1.04	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	79.9	E	1.35	2.28	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	56.8		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.3		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1712-01	Acq On:	04 Apr 2025 15:14
Client Sample ID:	Z-05A	Operator:	YP\AJ
Data file:	FE053193.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.138	6.779	3409658	21.852	300	ug/ml
Aliphatic C12-C16	6.780	10.230	26207387	170.586	200	ug/ml
Aliphatic C16-C21	10.231	13.605	195491239	1350	300	ug/ml
Aliphatic C21-C28	13.606	17.275	191864687	1430	400	ug/ml
Aliphatic C28-C40	17.276	22.176	130569302	1050	600	ug/ml
Aliphatic EPH	3.138	22.176	547542273	4030		ug/ml
ortho-Terphenyl (SURR)	11.897	11.897	5095654	31.28		ug/ml
1-chlorooctadecane (SURR)	13.341	13.341	6814911	56.77		ug/ml
Aliphatic C9-C28	3.138	17.275	416972971	2970	1200	ug/ml