

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Elizabeth Sub HQ	Date Received:	04/17/25
Client Sample ID:	LP5729	SDG No.:	Q1829
Lab Sample ID:	Q1829-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.8
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/18/25 10:00	04/18/25 15:37	PB167646

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	31.2		1	1.28	2.17	mg/kg FG015705.D
Aliphatic C9-C28	Aliphatic C9-C28	29.3		1	0.99	4.36	mg/kg FG015705.D
Total AliphaticEPH	Total AliphaticEPH	60.5			2.27	6.53	mg/kg
Total EPH	Total EPH	60.5			2.27	6.53	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015705.D	1	04/18/25	04/18/25	PB167646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	29.3		0.99	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	31.2		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.4		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.0		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1829-01	Acq On:	18 Apr 2025 15:37
Client Sample ID:	LP5729	Operator:	YP\AJ
Data file:	FG015705.D	Misc:	
Instrument:	FID_G	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.148	6.788	6654247	59.023	300	ug/ml
Aliphatic C12-C16	6.789	10.237	2588671	22.424	200	ug/ml
Aliphatic C16-C21	10.238	13.612	14445001	121.422	300	ug/ml
Aliphatic C21-C28	13.613	17.283	22747210	201.14	400	ug/ml
Aliphatic C28-C40	17.284	22.195	42541904	431.207	600	ug/ml
Aliphatic EPH	3.148	22.195	88977033	835.215		ug/ml
ortho-Terphenyl (SURR)	11.902	11.902	4344528	29.97		ug/ml
1-chlorooctadecane (SURR)	13.347	13.347	3633774	34.36		ug/ml
Aliphatic C9-C28	3.148	17.283	46435129	404.009	1200	ug/ml