

Report of Analysis

Client:	PSEG	Date Collected:	04/02/25
Project:	Plainfield Gas and Appliance Service MA0006789	Date Received:	04/02/25
Client Sample ID:	PL-01-040225	SDG No.:	Q1706
Lab Sample ID:	Q1706-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.9
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/03/25 10:09	04/04/25 9:34	PB167440

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	82.3		5	6.55	11.1	mg/kg	FE053184.D
Aliphatic C9-C28	Aliphatic C9-C28	24.6		1	1.01	4.44	mg/kg	FE053173.D
Total AliphaticEPH	Total AliphaticEPH	107			7.56	15.5	mg/kg	
Total EPH	Total EPH	107			7.56	15.5	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
FE053173.D	1	04/03/25	04/03/25	PB167440

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	24.6		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	70.9	E	1.31	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.5		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.7		40 - 140	59%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1706-01	Acq On:	03 Apr 2025 20:56
Client Sample ID:	PL-01-040225	Operator:	YP\AJ
Data file:	FE053173.D	Misc:	
Instrument:	FID_E	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.138	6.779	5514087	35.339	300	ug/ml
Aliphatic C12-C16	6.780	10.229	14824869	96.496	200	ug/ml
Aliphatic C16-C21	10.230	13.605	11923303	82.607	300	ug/ml
Aliphatic C21-C28	13.606	17.275	15954166	118.753	400	ug/ml
Aliphatic C28-C40	17.276	22.175	119055996	958.146	600	ug/ml
Aliphatic EPH	3.138	22.175	167272421	1290		ug/ml
ortho-Terphenyl (SURR)	11.892	11.892	4840378	29.72		ug/ml
1-chlorooctadecane (SURR)	13.337	13.337	3898512	32.48		ug/ml
Aliphatic C9-C28	3.138	17.275	48216425	333.195	1200	ug/ml