

Report of Analysis

Client:	PSEG	Date Collected:	03/19/25
Project:	New Brunswick Gas and Appliance Service MA00006789	Date Received:	03/19/25
Client Sample ID:	NB-070-031925	SDG No.:	Q1603
Lab Sample ID:	Q1603-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.4
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/20/25 08:55	03/20/25 14:39	PB167227

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	28.2		1	1.27	2.16	mg/kg FE052886.D
Aliphatic C9-C28	Aliphatic C9-C28	109		10	9.82	43.2	mg/kg FE052899.D
Total AliphaticEPH	Total AliphaticEPH	137			11.1	45.4	mg/kg
Total EPH	Total EPH	137			11.1	45.4	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
FE052886.D	1	03/20/25	03/20/25	PB167227

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	114	E	0.98	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	28.2		1.27	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.8		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.4		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1603-01	Acq On:	20 Mar 2025 14:39
Client Sample ID:	NB-070-031925	Operator:	YP\AJ
Data file:	FE052886.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	3.145	6.789	15534319	99.612	300	ug/ml
Aliphatic C12-C16	6.790	10.242	84197112	553.57	200	ug/ml
Aliphatic C16-C21	10.243	13.619	95508608	651.722	300	ug/ml
Aliphatic C21-C28	13.620	17.291	40618296	285.137	400	ug/ml
Aliphatic C28-C40	17.292	22.204	50025448	392.082	600	ug/ml
Aliphatic EPH	3.145	22.204	285883783	1980		ug/ml
ortho-Terphenyl (SURR)	11.908	11.908	5293771	31.4		ug/ml
1-chlorooctadecane (SURR)	13.352	13.352	4349478	35.82		ug/ml
Aliphatic C9-C28	3.145	17.291	235858335	1590	1200	ug/ml