

Report of Analysis

Client:	PSEG	Date Collected:	12/27/24
Project:	New Brunswick Gas and Appliance Service MA00006789	Date Received:	12/27/24
Client Sample ID:	NB-07-12272024-E2	SDG No.:	P5391
Lab Sample ID:	P5391-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.2
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
12/30/24 08:10	12/30/24 18:23	PB165899

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	14.0		1	1.97	2.19	mg/kg	FE051815.D
Aliphatic C9-C28	Aliphatic C9-C28	1.88	U	1	1.88	4.37	mg/kg	FE051815.D
Total AliphaticEPH	Total AliphaticEPH	14.0			3.85	6.56	mg/kg	
Total EPH	Total EPH	14.0			3.85	6.56	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051815.D	1	12/30/24	12/30/24	PB165899

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.88	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.0		1.97	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.3		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.6		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5391-02	Acq On:	30 Dec 2024 18:23
Client Sample ID:	NB-07-12272024-E2	Operator:	YP\AJ
Data file:	FE051815.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.400	6.975	509370	4.222	300	ug/ml
Aliphatic C12-C16	6.976	10.387	651960	4.926	200	ug/ml
Aliphatic C16-C21	10.388	13.733	1187937	8.723	300	ug/ml
Aliphatic C21-C28	13.734	17.373	1412824	11.123	400	ug/ml
Aliphatic C28-C40	17.374	22.296	19144262	191.813	600	ug/ml
Aliphatic EPH	3.400	22.296	22906353	220.807		ug/ml
ortho-Terphenyl (SURR)	12.062	12.062	4791551	31.63		ug/ml
1-chlorooctadecane (SURR)	13.485	13.485	3872878	33.29		ug/ml
Aliphatic C9-C28	3.400	17.373	3762091	28.994	1200	ug/ml