

Report of Analysis

Client:	PSEG	Date Collected:	10/25/24
Project:	Plainfield Gas and Appliance Service MA0006789	Date Received:	10/25/24
Client Sample ID:	PL-02-102424-E2	SDG No.:	P4575
Lab Sample ID:	P4575-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.8
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
10/26/24 09:00	10/29/24 10:01	PB164436

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	180		5	10.1	11.2	mg/kg FE050877.D
Aliphatic C9-C28	Aliphatic C9-C28	7.65		1	1.93	4.49	mg/kg FE050867.D
Total AliphaticEPH	Total AliphaticEPH	188			12.0	15.7	mg/kg
Total EPH	Total EPH	188			12.0	15.7	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
FE050867.D	1	10/26/24	10/28/24	PB164436

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7.65		1.93	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	166	E	2.02	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.0		40 - 140	54%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.9		40 - 140	50%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4575-02	Acq On:	28 Oct 2024 18:23
Client Sample ID:	PL-02-102424-E2	Operator:	YP\AJ
Data file:	FE050867.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.147	6.765	687993	4.815	300	ug/ml
Aliphatic C12-C16	6.766	10.198	1406719	9.694	200	ug/ml
Aliphatic C16-C21	10.199	13.558	4244751	29.396	300	ug/ml
Aliphatic C21-C28	13.559	17.213	8953494	62.984	400	ug/ml
Aliphatic C28-C40	17.214	22.064	307776833	2230	600	ug/ml
Aliphatic EPH	3.147	22.064	323069790	2330		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	3929582	24.93		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	3192485	26.99		ug/ml
Aliphatic C9-C28	3.147	17.213	15292957	106.889	1200	ug/ml