

Report of Analysis

Client:	PSEG	Date Collected:	12/18/24
Project:	Kingsland Substation	Date Received:	12/18/24
Client Sample ID:	HT2651-E2	SDG No.:	P5342
Lab Sample ID:	P5342-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.8
Sample Wt/Vol:	10.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
12/19/24 09:10	12/20/24 12:31	PB165749

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	445		10	59.7	66.3	mg/kg FE051738.D
Aliphatic C9-C28	Aliphatic C9-C28	8230		50	285	660	mg/kg FE051739.D
Total AliphaticEPH	Total AliphaticEPH	8680			344	726	mg/kg
Total EPH	Total EPH	8680			344	726	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
FE051723.D	1	12/19/24	12/19/24	PB165749

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	8140	E	5.70	13.3	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	468	E	5.97	6.63	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	0.00		40 - 140	0%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5342-04	Acq On:	19 Dec 2024 20:01
Client Sample ID:	HT2651-E2	Operator:	YP\AJ
Data file:	FE051723.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	3.381	6.952	7850614	62.927	300	ug/ml
Aliphatic C12-C16	6.953	10.358	674357685	4870	200	ug/ml
Aliphatic C16-C21	10.359	13.700	2852771893	19700	300	ug/ml
Aliphatic C21-C28	13.701	17.331	1662049222	12200	400	ug/ml
Aliphatic C28-C40	17.332	22.209	230151226	2120	600	ug/ml
Aliphatic EPH	3.381	22.209	5427180640	39000		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.381	17.331	5197029414	36900	1200	ug/ml