

Report of Analysis

Client:	PSEG	Date Collected:	01/31/25
Project:	Kingsland Substation	Date Received:	01/31/25
Client Sample ID:	CHRT-20430	SDG No.:	Q1261
Lab Sample ID:	Q1261-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	56
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
02/01/25 09:31	02/04/25 10:37	PB166469

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	858		20	64.2	71.3	mg/kg FF015456.D
Aliphatic C9-C28	Aliphatic C9-C28	24500		250	764	1780	mg/kg FF015457.D
Total AliphaticEPH	Total AliphaticEPH	25300			828	1850	mg/kg
Total EPH	Total EPH	25300			828	1850	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
FF015445.D	1	02/01/25	02/03/25	PB166469

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	23700	E	3.07	7.13	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	793	E	3.21	3.57	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:	Q1261-01	Acq On:	03 Feb 2025 20:00
Client Sample ID:	CHRT-20430	Operator:	YP\AJ
Data file:	FF015445.D	Misc:	
Instrument:	FID_F	ALS Vial:	83
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.213	6.835	70643021	529.983	300	ug/ml
Aliphatic C12-C16	6.836	10.270	3150119863	22800	200	ug/ml
Aliphatic C16-C21	10.271	13.640	19856814476	137000	300	ug/ml
Aliphatic C21-C28	13.641	17.307	5508878346	38700	400	ug/ml
Aliphatic C28-C40	17.308	22.219	699294805	6680	600	ug/ml
Aliphatic EPH	3.213	22.219	29285750511	206000		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	3.213	17.307	28586455706	199000	1200	ug/ml