

Report of Analysis

Client:	PSEG	Date Collected:	01/07/25
Project:	Greenbrook Substation	Date Received:	01/07/25
Client Sample ID:	GREENBROOK-COMP	SDG No.:	Q1025
Lab Sample ID:	Q1025-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/08/25 08:06	01/08/25 14:15	PB165974

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.14		1	2.08	2.31	mg/kg	FE051865.D
Aliphatic C9-C28	Aliphatic C9-C28	4.40	J	1	1.98	4.61	mg/kg	FE051865.D
Total AliphaticEPH	Total AliphaticEPH	11.5			4.06	6.92	mg/kg	
Total EPH	Total EPH	11.5			4.06	6.92	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
FE051865.D	1	01/08/25	01/08/25	PB165974

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.40	J	1.98	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.14		2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.3		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.2		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1025-01	Acq On:	08 Jan 2025 14:15
Client Sample ID:	GREENBROOK-COMP	Operator:	YP\AJ
Data file:	FE051865.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	3.428	7.024	660577	5.8	300	ug/ml
Aliphatic C12-C16	7.025	10.452	793610	6.403	200	ug/ml
Aliphatic C16-C21	10.453	13.814	2749567	20.827	300	ug/ml
Aliphatic C21-C28	13.815	17.470	3175347	24.241	400	ug/ml
Aliphatic C28-C40	17.471	22.484	10130330	92.816	600	ug/ml
Aliphatic EPH	3.428	22.484	17509431	150.086		ug/ml
ortho-Terphenyl (SURR)	12.123	12.123	4374254	30.18		ug/ml
1-chlorooctadecane (SURR)	13.552	13.552	3594175	31.28		ug/ml
Aliphatic C9-C28	3.428	17.470	7379101	57.271	1200	ug/ml