

Report of Analysis

Client:	PSEG	Date Collected:	11/08/24
Project:	Saddle Brook Substation	Date Received:	11/08/24
Client Sample ID:	TP-4	SDG No.:	P4796
Lab Sample ID:	P4796-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	96.4
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
11/10/24 08:35	11/11/24 18:13	PB164844

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.81		1	1.86	2.07	mg/kg	FE051154.D
Aliphatic C9-C28	Aliphatic C9-C28	1.78	U	1	1.78	4.15	mg/kg	FE051154.D
Total AliphaticEPH	Total AliphaticEPH	6.81			3.64	6.22	mg/kg	
Total EPH	Total EPH	6.81			3.64	6.22	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
FE051154.D	1	11/10/24	11/11/24	PB164844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.78	4.15	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.81		1.86	2.07	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.3		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.1		40 - 140	62%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4796-07	Acq On:	11 Nov 2024 18:13
Client Sample ID:	TP-4	Operator:	YP\AJ
Data file:	FE051154.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.140	22.059	16443221	126.141		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	4674494	31.14		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	3555593	31.32		ug/ml
Aliphatic C9-C12	3.140	6.760	327711	2.342	300	ug/ml
Aliphatic C12-C16	6.761	10.193	606168	4.31	200	ug/ml
Aliphatic C16-C21	10.194	13.553	613736	4.455	300	ug/ml
Aliphatic C21-C28	13.554	17.209	2193638	16.376	400	ug/ml
Aliphatic C28-C40	17.210	22.059	12701968	98.657	600	ug/ml
Aliphatic C9-C28	3.140	17.209	3741253	27.483	1200	ug/ml