

Report of Analysis

Client:	PSEG	Date Collected:	10/21/24
Project:	Cedar Grove Switching Station	Date Received:	10/21/24
Client Sample ID:	ETGI-345	SDG No.:	P4468
Lab Sample ID:	P4468-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.3
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/22/24 08:39	10/22/24 18:07	PB164308

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.49		1	1.97	2.19	mg/kg	FE050770.D
Aliphatic C9-C28	Aliphatic C9-C28	4.37	U	1	1.88	4.37	mg/kg	FE050770.D
Total AliphaticEPH	Total AliphaticEPH	6.49	J		3.85	6.56	mg/kg	
Total EPH	Total EPH	6.49	J		3.85	6.56	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
FE050770.D	1	10/22/24	10/22/24	PB164308

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.88	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.49		1.97	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.8		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.8		40 - 140	80%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4468-05	Acq On:	22 Oct 2024 18:07
Client Sample ID:	ETGI-345	Operator:	YP\AJ
Data file:	FE050770.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.150	6.769	345322	2.417	300	ug/ml
Aliphatic C12-C16	6.770	10.202	855286	5.894	200	ug/ml
Aliphatic C16-C21	10.203	13.562	1026984	7.112	300	ug/ml
Aliphatic C21-C28	13.563	17.219	1804717	12.695	400	ug/ml
Aliphatic C28-C40	17.220	22.072	12301215	88.944	600	ug/ml
Aliphatic EPH	3.150	22.072	16333524	117.061		ug/ml
ortho-Terphenyl (SURR)	11.863	11.863	6276440	39.81		ug/ml
1-chlorooctadecane (SURR)	13.296	13.296	4947446	41.82		ug/ml
Aliphatic C9-C28	3.150	17.219	4032309	28.118	1200	ug/ml