284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PSEG	Date Collected:	11/13/24
Project:	New Dover Substation	Date Received:	11/13/24
Client Sample ID:	T-20	SDG No.:	P4824
Lab Sample ID:	P4824-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 09:40	11/14/24 15:17	PB164966

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	34.9		1	1.80	2.00	mg/kg	FE051235.D
Aliphatic C9-C28	Aliphatic C9-C28	367		10	17.2	39.9	mg/kg	FE051258.D
Total AliphaticEPH	Total AliphaticEPH	402			19.0	41.9	mg/kg	
Total EPH	Total EPH	402			19.0	41.9	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
FE051235.D	1	11/14/24	11/14/24	PB164966

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28		335	E	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		34.9		1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		33.5		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		34.1		40 - 140	68%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4824-01	Acq On:	14 Nov 2024 15:17
Client Sample ID:	T-20	Operator:	YP\AJ
Data file:	FE051235.D	Misc:	
Instrument:	FID_E	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.135	6.753	393242	2.811	300	ug/ml
Aliphatic C12-C16	6.754	10.184	13743050	97.721	200	ug/ml
Aliphatic C16-C21	10.185	13.542	455827634	3310	300	ug/ml
Aliphatic C21-C28	13.543	17.196	217751726	1630	400	ug/ml
Aliphatic C28-C40	17.197	22.038	67579838	524.898	600	ug/ml
Aliphatic EPH	3.135	22.038	755295490	5560		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	5118731	34.1		ug/ml
1-chlorooctadecane (SURR)	13.290	13.290	3803331	33.5		ug/ml
Aliphatic C9-C28	3.135	17.196	687715652	5030	1200	ug/ml