

Report of Analysis

Client:	PSEG	Date Collected:	12/18/24
Project:	Hackensack Sub HQ	Date Received:	12/18/24
Client Sample ID:	VNJ210-E2	SDG No.:	P5343
Lab Sample ID:	P5343-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88
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
12/19/24 09:10	12/19/24 19:01	PB165749

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	12.7		1	2.04	2.27	mg/kg FE051721.D
Aliphatic C9-C28	Aliphatic C9-C28	6.29		1	1.95	4.53	mg/kg FE051721.D
Total AliphaticEPH	Total AliphaticEPH	19.0			3.99	6.80	mg/kg
Total EPH	Total EPH	19.0			3.99	6.80	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
FE051721.D	1	12/19/24	12/19/24	PB165749

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.29		1.95	4.53	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	12.7		2.04	2.27	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.9		40 - 140	52%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.1		40 - 140	50%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5343-02	Acq On:	19 Dec 2024 19:01
Client Sample ID:	VNJ210-E2	Operator:	YP\AJ
Data file:	FE051721.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	3.381	6.952	533781	4.279	300	ug/ml
Aliphatic C12-C16	6.953	10.358	797786	5.76	200	ug/ml
Aliphatic C16-C21	10.359	13.700	4903415	33.943	300	ug/ml
Aliphatic C21-C28	13.701	17.331	5938072	43.556	400	ug/ml
Aliphatic C28-C40	17.332	22.209	18259312	168.187	600	ug/ml
Aliphatic EPH	3.381	22.209	30432366	255.724		ug/ml
ortho-Terphenyl (SURR)	12.019	12.019	4029172	25.1		ug/ml
1-chlorooctadecane (SURR)	13.441	13.441	3273082	25.95		ug/ml
Aliphatic C9-C28	3.381	17.331	12173054	87.538	1200	ug/ml