

Report of Analysis

Client:	PSEG	Date Collected:	04/08/25
Project:	Ironbound Substation - Emmet	Date Received:	04/08/25
Client Sample ID:	IB-1.5-WC	SDG No.:	Q1748
Lab Sample ID:	Q1748-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81.5
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 09:51	04/10/25 8:00	PB167528

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	58.6		2	2.89	4.89	mg/kg	FE053297.D
Aliphatic C9-C28	Aliphatic C9-C28	18.8		1	1.11	4.89	mg/kg	FE053278.D
Total AliphaticEPH	Total AliphaticEPH	77.4			4.00	9.78	mg/kg	
Total EPH	Total EPH	77.4			4.00	9.78	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
FE053278.D	1	04/09/25	04/09/25	PB167528

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	18.8		1.11	4.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	62.3	E	1.44	2.45	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.7		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.3		40 - 140	61%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1748-01	Acq On:	09 Apr 2025 14:58
Client Sample ID:	IB-1.5-WC	Operator:	YP\AJ
Data file:	FE053278.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.135	6.774	4249584	27.235	300	ug/ml
Aliphatic C12-C16	6.775	10.223	7575074	49.307	200	ug/ml
Aliphatic C16-C21	10.224	13.598	9847955	68.229	300	ug/ml
Aliphatic C21-C28	13.599	17.267	11441460	85.163	400	ug/ml
Aliphatic C28-C40	17.268	22.161	94913902	763.854	600	ug/ml
Aliphatic EPH	3.135	22.161	128027975	993.788		ug/ml
ortho-Terphenyl (SURR)	11.889	11.889	4941096	30.34		ug/ml
1-chlorooctadecane (SURR)	13.334	13.334	4040334	33.66		ug/ml
Aliphatic C9-C28	3.135	17.267	33114073	229.934	1200	ug/ml