

Report of Analysis

Client:	PSEG	Date Collected:	04/08/25
Project:	Ironbound Substation - Emmet	Date Received:	04/08/25
Client Sample ID:	IB-2A-WC	SDG No.:	Q1748
Lab Sample ID:	Q1748-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.6
Sample Wt/Vol:	30.02 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	04/09/25 16:28	PB167528

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	13.5		1	1.43	2.42	mg/kg	FE053280.D
Aliphatic C9-C28	Aliphatic C9-C28	10.7		1	1.10	4.84	mg/kg	FE053280.D
Total AliphaticEPH	Total AliphaticEPH	24.1			2.53	7.26	mg/kg	
Total EPH	Total EPH	24.1			2.53	7.26	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
FE053280.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	10.7		1.10	4.84	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.5		1.43	2.42	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.6		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.4		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1748-05	Acq On:	09 Apr 2025 16:28
Client Sample ID:	IB-2A-WC	Operator:	YP\AJ
Data file:	FE053280.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.135	6.774	4768479	30.561	300	ug/ml
Aliphatic C12-C16	6.775	10.223	2376449	15.469	200	ug/ml
Aliphatic C16-C21	10.224	13.598	6759572	46.832	300	ug/ml
Aliphatic C21-C28	13.599	17.267	5260861	39.159	400	ug/ml
Aliphatic C28-C40	17.268	22.161	20824978	167.597	600	ug/ml
Aliphatic EPH	3.135	22.161	39990339	299.616		ug/ml
ortho-Terphenyl (SURR)	11.888	11.888	5608314	34.43		ug/ml
1-chlorooctadecane (SURR)	13.332	13.332	4272807	35.59		ug/ml
Aliphatic C9-C28	3.135	17.267	19165361	132.021	1200	ug/ml