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

Report of Analysis

Client:	PSEG	Date Collected:	04/07/25
Project:	Ironbound Substation - Emmet	Date Received:	04/07/25
Client Sample ID:	IB-6.5-WC	SDG No.:	Q1745
Lab Sample ID:	Q1745-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/08/25 23:39	PB167512

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	17.4		1	1.65	2.79	mg/kg	FE053252.D
Aliphatic C9-C28	Aliphatic C9-C28	14.6		1	1.27	5.59	mg/kg	FE053252.D
Total AliphaticEPH	Total AliphaticEPH	32.0			2.92	8.38	mg/kg	
Total EPH	Total EPH	32.0			2.92	8.38	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
FE053252.D	1	04/08/25	04/08/25	PB167512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	14.6		1.27	5.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	17.4		1.65	2.79	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.6		40 - 140	59%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.1		40 - 140	56%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1745-09	Acq On:	08 Apr 2025 23:39
Client Sample ID:	IB-6.5-WC	Operator:	YP\AJ
Data file:	FE053252.D	Misc:	
Instrument:	FID_E	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.782	1605982	10.293	300	ug/ml
Aliphatic C12-C16	6.783	10.234	3275017	21.317	200	ug/ml
Aliphatic C16-C21	10.235	13.613	7656652	53.047	300	ug/ml
Aliphatic C21-C28	13.614	17.285	9745108	72.537	400	ug/ml
Aliphatic C28-C40	17.286	22.199	23275044	187.314	600	ug/ml
Aliphatic EPH	3.139	22.199	45557803	344.508		ug/ml
ortho-Terphenyl (SURR)	11.892	11.892	4570161	28.06		ug/ml
1-chlorooctadecane (SURR)	13.337	13.337	3559212	29.65		ug/ml
Aliphatic C9-C28	3.139	17.285	22282759	157.194	1200	ug/ml