

Report of Analysis

Client:	PSEG	Date Collected:	05/19/25
Project:	Hamilton Road - Hillsborough	Date Received:	05/19/25
Client Sample ID:	PL-HRH-05	SDG No.:	Q2080
Lab Sample ID:	Q2080-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	79.9
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	10000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/20/25 09:15	05/20/25 21:20	PB168076

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	18.7		1	7.37	12.5	mg/kg	FE053935.D
Aliphatic C9-C28	Aliphatic C9-C28	22.1	J	1	5.68	25.0	mg/kg	FE053935.D
Total AliphaticEPH	Total AliphaticEPH	40.8			13.1	37.5	mg/kg	
Total EPH	Total EPH	40.8			13.1	37.5	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
FE053935.D	1	05/20/25	05/20/25	PB168076

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	22.1	J	5.68	25.0	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.7		7.37	12.5	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.5		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.7		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2080-10	Acq On:	20 May 2025 21:20
Client Sample ID:	PL-HRH-05	Operator:	YP\AJ
Data file:	FE053935.D	Misc:	
Instrument:	FID_E	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.098	6.739	298146	2.199	300	ug/ml
Aliphatic C12-C16	6.740	10.187	2413115	17.883	200	ug/ml
Aliphatic C16-C21	10.188	13.561	881869	6.685	300	ug/ml
Aliphatic C21-C28	13.562	17.229	3296325	26.545	400	ug/ml
Aliphatic C28-C40	17.230	22.108	5173647	44.82	600	ug/ml
Aliphatic EPH	3.098	22.108	12063102	98.133		ug/ml
ortho-Terphenyl (SURR)	11.845	11.845	6131466	37.73		ug/ml
1-chlorooctadecane (SURR)	13.290	13.290	4917715	41.48		ug/ml
Aliphatic C9-C28	3.098	17.229	6889455	53.312	1200	ug/ml