

Report of Analysis

Client:	PSEG	Date Collected:	05/19/25
Project:	Hamilton Road - Hillsborough	Date Received:	05/19/25
Client Sample ID:	PL-HRH-02	SDG No.:	Q2080
Lab Sample ID:	Q2080-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83.3
Sample Wt/Vol:	30.02	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 19:49	PB168076

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	25.3		1	7.08	12.0	mg/kg FE053932.D
Aliphatic C9-C28	Aliphatic C9-C28	33.5		1	5.46	24.0	mg/kg FE053932.D
Total AliphaticEPH	Total AliphaticEPH	58.8			12.5	36.0	mg/kg
Total EPH	Total EPH	58.8			12.5	36.0	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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Analytical Method:	NJEPH	% Solid:	83.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053932.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	33.5		5.46	24.0	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	25.3		7.08	12.0	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.1		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.2		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2080-04	Acq On:	20 May 2025 19:49
Client Sample ID:	PL-HRH-02	Operator:	YP\AJ
Data file:	FE053932.D	Misc:	
Instrument:	FID_E	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.098	6.739	308210	2.274	300	ug/ml
Aliphatic C12-C16	6.740	10.187	1034890	7.669	200	ug/ml
Aliphatic C16-C21	10.188	13.561	6537227	49.558	300	ug/ml
Aliphatic C21-C28	13.562	17.229	3019021	24.312	400	ug/ml
Aliphatic C28-C40	17.230	22.108	7298816	63.231	600	ug/ml
Aliphatic EPH	3.098	22.108	18198164	147.044		ug/ml
ortho-Terphenyl (SURR)	11.846	11.846	5876478	36.16		ug/ml
1-chlorooctadecane (SURR)	13.290	13.290	4521684	38.14		ug/ml
Aliphatic C9-C28	3.098	17.229	10899348	83.813	1200	ug/ml