

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Hamilton M&R	Date Received:	04/17/25
Client Sample ID:	SOIL-1F	SDG No.:	Q1830
Lab Sample ID:	Q1830-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/18/25 08:35	04/18/25 15:51	PB167642

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	21.8		1	1.28	2.17	mg/kg	FE053416.D
Aliphatic C9-C28	Aliphatic C9-C28	23.9		1	0.99	4.35	mg/kg	FE053416.D
Total AliphaticEPH	Total AliphaticEPH	45.7			2.27	6.52	mg/kg	
Total EPH	Total EPH	45.7			2.27	6.52	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
FE053416.D	1	04/18/25	04/18/25	PB167642

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	23.9		0.99	4.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.8		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.9		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.3		40 - 140	89%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1830-07	Acq On:	18 Apr 2025 15:51
Client Sample ID:	SOIL-1F	Operator:	YP\AJ
Data file:	FE053416.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.126	6.766	871984	6.293	300	ug/ml
Aliphatic C12-C16	6.767	10.215	3699788	26.09	200	ug/ml
Aliphatic C16-C21	10.216	13.590	17521491	120.535	300	ug/ml
Aliphatic C21-C28	13.591	17.259	25157186	176.946	400	ug/ml
Aliphatic C28-C40	17.260	22.151	38925629	301.634	600	ug/ml
Aliphatic EPH	3.126	22.151	86176078	631.499		ug/ml
ortho-Terphenyl (SURR)	11.881	11.881	7983097	44.26		ug/ml
1-chlorooctadecane (SURR)	13.325	13.325	6336480	46.88		ug/ml
Aliphatic C9-C28	3.126	17.259	47250449	329.864	1200	ug/ml