

Report of Analysis

Client:	PSEG	Date Collected:	01/13/25
Project:	Brooklawn M&R	Date Received:	01/13/25
Client Sample ID:	ARS20-0006	SDG No.:	Q1076
Lab Sample ID:	Q1076-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.3
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/14/25 08:55	01/14/25 15:11	PB166046

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	27.9		1	1.99	2.21	mg/kg FE051916.D
Aliphatic C9-C28	Aliphatic C9-C28	271		5	9.51	22.1	mg/kg FE051927.D
Total AliphaticEPH	Total AliphaticEPH	299			11.5	24.3	mg/kg
Total EPH	Total EPH	299			11.5	24.3	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
FE051916.D	1	01/14/25	01/14/25	PB166046

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	271	E	1.90	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.9		1.99	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.0		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.4		40 - 140	87%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1076-01	Acq On:	14 Jan 2025 15:11
Client Sample ID:	ARS20-0006	Operator:	YP\AJ
Data file:	FE051916.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.470	7.060	487234	4.278	300	ug/ml
Aliphatic C12-C16	7.061	10.484	35154347	283.653	200	ug/ml
Aliphatic C16-C21	10.485	13.843	301361965	2280	300	ug/ml
Aliphatic C21-C28	13.844	17.400	145147991	1110	400	ug/ml
Aliphatic C28-C40	17.401	22.524	41316666	378.549	600	ug/ml
Aliphatic EPH	3.470	22.524	523468203	4060		ug/ml
ortho-Terphenyl (SURR)	12.160	12.160	6286677	43.37		ug/ml
1-chlorooctadecane (SURR)	13.585	13.585	5060683	44.04		ug/ml
Aliphatic C9-C28	3.470	17.400	482151537	3680	1200	ug/ml