

Report of Analysis

Client:	PSEG	Date Collected:	01/23/25
Project:	Brooklawn M&R	Date Received:	01/23/25
Client Sample ID:	ARS20-0006	SDG No.:	Q1169
Lab Sample ID:	Q1169-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.8
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
01/24/25 08:59	01/24/25 15:26	PB166217

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	34.4		1	1.98	2.20	mg/kg	FC068114.D
Aliphatic C9-C28	Aliphatic C9-C28	208		5	9.46	22.0	mg/kg	FC068127.D
Total AliphaticEPH	Total AliphaticEPH	243			11.4	24.2	mg/kg	
Total EPH	Total EPH	243			11.4	24.2	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
FC068114.D	1	01/24/25	01/24/25	PB166217

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	208	E	1.89	4.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.4		1.98	2.20	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.5		40 - 140	59%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1169-01	Acq On:	24 Jan 2025 15:26
Client Sample ID:	ARS20-0006	Operator:	YP/AJ
Data file:	FC068114.D	Misc:	
Instrument:	FID_C	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.133	6.399	765057	5.524	300	ug/ml
Aliphatic C12-C16	6.400	9.782	25431935	184.673	200	ug/ml
Aliphatic C16-C21	9.783	13.135	196360468	1450	300	ug/ml
Aliphatic C21-C28	13.136	16.786	153300299	1210	400	ug/ml
Aliphatic C28-C40	16.787	21.595	48558600	468.537	600	ug/ml
Aliphatic EPH	3.133	21.595	424416359	3320		ug/ml
ortho-Terphenyl (SURR)	11.431	11.431	4608716	29.49		ug/ml
1-chlorooctadecane (SURR)	12.871	12.871	3518769	30.6		ug/ml
Aliphatic C9-C28	3.133	16.786	375857759	2850	1200	ug/ml