

Report of Analysis

Client:	PSEG	Date Collected:	01/29/25
Project:	Lawrenceville	Date Received:	01/29/25
Client Sample ID:	LAW-25-0015	SDG No.:	Q1219
Lab Sample ID:	Q1219-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	5.08	Units:	g
Soil Aliquot Vol:		Final Vol:	4000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/30/25 09:40	01/31/25 11:03	PB166362

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	100000		500	10600	11800	mg/kg FF015411.D
Aliphatic C9-C28	Aliphatic C9-C28	78000		500	10200	23600	mg/kg FF015411.D
Total AliphaticEPH	Total AliphaticEPH	178000			20800	35400	mg/kg
Total EPH	Total EPH	178000			20800	35400	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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Sample Wt/Vol:	5.08 Units: g	Final Vol:	4000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015402.D	10	01/30/25	01/30/25	PB166362

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	78700	E	203	472	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	92700	E	212	236	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.7		40 - 140	793%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	3.56		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1219-01	Acq On:	30 Jan 2025 19:06
Client Sample ID:	LAW-25-0015	Operator:	YP\AJ
Data file:	FF015402.D	Misc:	
Instrument:	FID_F	ALS Vial:	81
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.832	15289123	114.703	300	ug/ml
Aliphatic C12-C16	6.833	10.265	17454791	126.115	200	ug/ml
Aliphatic C16-C21	10.266	13.632	48867428	338.281	300	ug/ml
Aliphatic C21-C28	13.633	17.297	1340498561	9410	400	ug/ml
Aliphatic C28-C40	17.298	22.204	1231892288	11800	600	ug/ml
Aliphatic EPH	3.214	22.204	2654002191	21800		ug/ml
ortho-Terphenyl (SURR)	11.931	11.931	565746	3.56		ug/ml
1-chlorooctadecane (SURR)	13.362	13.362	4943947	39.66		ug/ml
Aliphatic C9-C28	3.214	17.297	1422109903	9990	1200	ug/ml