

Report of Analysis

Client:	PSEG	Date Collected:	10/29/24
Project:	Lawrenceville HQ	Date Received:	10/29/24
Client Sample ID:	ARS20-0001	SDG No.:	P4613
Lab Sample ID:	P4613-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/30/24 10:50	10/31/24 12:01	PB164528

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	192		10	20.3	22.6	mg/kg FE050937.D
Aliphatic C9-C28	Aliphatic C9-C28	8950		200	388	900	mg/kg FE050938.D
Total AliphaticEPH	Total AliphaticEPH	9140			408	923	mg/kg
Total EPH	Total EPH	9140			408	923	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
FE050904.D	1	10/30/24	10/30/24	PB164528

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6650	E	1.94	4.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	187	E	2.03	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	0.00		40 - 140	0%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4613-01	Acq On:	30 Oct 2024 16:59
Client Sample ID:	ARS20-0001	Operator:	YP\AJ
Data file:	FE050904.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.144	22.057	13067906039	90900		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C12	3.144	6.762	16188986	113.289	300	ug/ml
Aliphatic C12-C16	6.763	10.194	1987282942	13700	200	ug/ml
Aliphatic C16-C21	10.195	13.554	7617177794	52800	300	ug/ml
Aliphatic C21-C28	13.555	17.208	3102716864	21800	400	ug/ml
Aliphatic C28-C40	17.209	22.057	344539453	2490	600	ug/ml
Aliphatic C9-C28	3.144	17.208	12723366586	88400	1200	ug/ml