

Report of Analysis

Client:	PSEG	Date Collected:	03/20/25
Project:	Aldene Switching Station	Date Received:	03/20/25
Client Sample ID:	RBR200030	SDG No.:	Q1611
Lab Sample ID:	Q1611-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/21/25 09:40	03/21/25 19:51	PB167255

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	42.4		1	1.28	2.18	mg/kg	FE052921.D
Aliphatic C9-C28	Aliphatic C9-C28	3.96	J	1	0.99	4.36	mg/kg	FE052921.D
Total AliphaticEPH	Total AliphaticEPH	46.4			2.27	6.54	mg/kg	
Total EPH	Total EPH	46.4			2.27	6.54	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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Lab Sample ID:	Q1611-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052921.D	1	03/21/25	03/21/25	PB167255

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.96	J	0.99	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	42.4		1.28	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.2		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.3		40 - 140	52%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1611-01	Acq On:	21 Mar 2025 19:51
Client Sample ID:	RBR200030	Operator:	YP\AJ
Data file:	FE052921.D	Misc:	
Instrument:	FID_E	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.144	6.788	1128862	7.239	300	ug/ml
Aliphatic C12-C16	6.789	10.240	1517610	9.978	200	ug/ml
Aliphatic C16-C21	10.241	13.619	1996375	13.623	300	ug/ml
Aliphatic C21-C28	13.620	17.290	3366887	23.635	400	ug/ml
Aliphatic C28-C40	17.291	22.206	74605134	584.73	600	ug/ml
Aliphatic EPH	3.144	22.206	82614868	639.204		ug/ml
ortho-Terphenyl (SURR)	11.903	11.903	4424900	26.25		ug/ml
1-chlorooctadecane (SURR)	13.347	13.347	3422406	28.19		ug/ml
Aliphatic C9-C28	3.144	17.290	8009734	54.475	1200	ug/ml