

Report of Analysis

Client:	PSEG	Date Collected:	07/14/25
Project:	Athenia Switching Station	Date Received:	07/14/25
Client Sample ID:	CHRT-26899	SDG No.:	Q2597
Lab Sample ID:	Q2597-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	98.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/15/25 09:30	07/15/25 17:55	PB168855

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.32		1	1.20	2.03	mg/kg	FE054856.D
Aliphatic C9-C28	Aliphatic C9-C28	295		10	9.22	40.5	mg/kg	FE054870.D
Total AliphaticEPH	Total AliphaticEPH	303			10.4	42.5	mg/kg	
Total EPH	Total EPH	303			10.4	42.5	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054856.D	1	07/15/25	07/15/25	PB168855

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	280	E	0.92	4.04	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.32		1.20	2.03	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.5		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.0		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2597-01	Acq On:	15 Jul 2025 17:55
Client Sample ID:	CHRT-26899	Operator:	YP\AJ
Data file:	FE054856.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.326	6.958	365280	2.685	300	ug/ml
Aliphatic C12-C16	6.959	10.409	29947382	213.045	200	ug/ml
Aliphatic C16-C21	10.410	13.786	365503930	2530	300	ug/ml
Aliphatic C21-C28	13.787	17.455	204291997	1410	400	ug/ml
Aliphatic C28-C40	17.456	22.473	17080140	123.191	600	ug/ml
Aliphatic EPH	3.326	22.473	617188729	4280		ug/ml
ortho-Terphenyl (SURR)	12.090	12.090	5842916	35.98		ug/ml
1-chlorooctadecane (SURR)	13.528	13.528	4862835	38.5		ug/ml
Aliphatic C9-C28	3.326	17.455	600108589	4160	1200	ug/ml