

Report of Analysis

Client:	PSEG	Date Collected:	07/10/25
Project:	Burlington Switching Station	Date Received:	07/10/25
Client Sample ID:	ARS20-0039	SDG No.:	Q2564
Lab Sample ID:	Q2564-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.2
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
07/11/25 09:20	07/11/25 18:52	PB168812

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	23.0		1	1.35	2.29	mg/kg	FE054818.D
Aliphatic C9-C28	Aliphatic C9-C28	927		20	20.9	91.7	mg/kg	FE054840.D
Total AliphaticEPH	Total AliphaticEPH	950			22.3	94.0	mg/kg	
Total EPH	Total EPH	950			22.3	94.0	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
FE054818.D	1	07/11/25	07/11/25	PB168812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	835	E	1.04	4.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	23.0		1.35	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.3		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.3		40 - 140	57%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2564-05	Acq On:	11 Jul 2025 18:52
Client Sample ID:	ARS20-0039	Operator:	YP\AJ
Data file:	FE054818.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.321	6.954	750801	5.518	300	ug/ml
Aliphatic C12-C16	6.955	10.407	160816380	1140	200	ug/ml
Aliphatic C16-C21	10.408	13.785	1109121865	7680	300	ug/ml
Aliphatic C21-C28	13.786	17.455	304042687	2100	400	ug/ml
Aliphatic C28-C40	17.456	22.481	41693611	300.717	600	ug/ml
Aliphatic EPH	3.321	22.481	1616425344	11200		ug/ml
ortho-Terphenyl (SURR)	12.097	12.097	4598274	28.32		ug/ml
1-chlorooctadecane (SURR)	13.534	13.534	4714567	37.33		ug/ml
Aliphatic C9-C28	3.321	17.455	1574731733	10900	1200	ug/ml