

Report of Analysis

Client:	PSEG	Date Collected:	07/10/25
Project:	Burlington Switching Station	Date Received:	07/10/25
Client Sample ID:	ARS20-0013	SDG No.:	Q2564
Lab Sample ID:	Q2564-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91
Sample Wt/Vol:	30.05 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 17:51	PB168812

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.29	2.19	mg/kg	FE054816.D
Aliphatic C9-C28	Aliphatic C9-C28	1070		20	19.9	87.7	mg/kg	FE054838.D
Total AliphaticEPH	Total AliphaticEPH	1090			21.2	89.9	mg/kg	
Total EPH	Total EPH	1090			21.2	89.9	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
FE054816.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	968	E	1.00	4.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1.29	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.6		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.6		40 - 140	85%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2564-03	Acq On:	11 Jul 2025 17:51
Client Sample ID:	ARS20-0013	Operator:	YP\AJ
Data file:	FE054816.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.321	6.954	806576	5.928	300	ug/ml
Aliphatic C12-C16	6.955	10.407	285059852	2030	200	ug/ml
Aliphatic C16-C21	10.408	13.785	1042105916	7220	300	ug/ml
Aliphatic C21-C28	13.786	17.455	581085686	4020	400	ug/ml
Aliphatic C28-C40	17.456	22.481	40600249	292.831	600	ug/ml
Aliphatic EPH	3.321	22.481	1949658279	13600		ug/ml
ortho-Terphenyl (SURR)	12.095	12.095	6917174	42.6		ug/ml
1-chlorooctadecane (SURR)	13.534	13.534	4626626	36.63		ug/ml
Aliphatic C9-C28	3.321	17.455	1909058030	13300	1200	ug/ml