

Report of Analysis

Client:	PSEG	Date Collected:	02/03/25
Project:	Bridgewater Switch	Date Received:	02/03/25
Client Sample ID:	RT 3249-E2	SDG No.:	Q1277
Lab Sample ID:	Q1277-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81.5
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
02/04/25 08:15	02/04/25 17:07	PB166524

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	34.8		1	2.21	2.45	mg/kg	FE052224.D
Aliphatic C9-C28	Aliphatic C9-C28	2.77	J	1	2.11	4.92	mg/kg	FE052224.D
Total AliphaticEPH	Total AliphaticEPH	37.6			4.32	7.37	mg/kg	
Total EPH	Total EPH	37.6			4.32	7.37	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
FE052224.D	1	02/04/25	02/04/25	PB166524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.77	J	2.11	4.92	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.8		2.21	2.45	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.1		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.0		40 - 140	54%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1277-04	Acq On:	04 Feb 2025 17:07
Client Sample ID:	RT 3249-E2	Operator:	YP\AJ
Data file:	FE052224.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.618	7.187	593774	6.173	300	ug/ml
Aliphatic C12-C16	7.188	10.597	546421	5.218	200	ug/ml
Aliphatic C16-C21	10.598	13.950	667549	5.906	300	ug/ml
Aliphatic C21-C28	13.951	17.598	1876151	16.458	400	ug/ml
Aliphatic C28-C40	17.599	22.669	38917952	425.084	600	ug/ml
Aliphatic EPH	3.618	22.669	42601847	458.84		ug/ml
ortho-Terphenyl (SURR)	12.289	12.289	3345032	27.03		ug/ml
1-chlorooctadecane (SURR)	13.704	13.704	2777766	28.15		ug/ml
Aliphatic C9-C28	3.618	17.598	3683895	33.755	1200	ug/ml