

Report of Analysis

Client:	PSEG	Date Collected:	08/05/25
Project:	Bridgewater Switch	Date Received:	08/05/25
Client Sample ID:	254-E2	SDG No.:	Q2774
Lab Sample ID:	Q2774-14	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	77.2
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/06/25 09:25	08/07/25 14:56	PB169139

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	114		5	7.63	12.9	mg/kg FE055179.D
Aliphatic C9-C28	Aliphatic C9-C28	293		5	5.89	25.9	mg/kg FE055179.D
Total AliphaticEPH	Total AliphaticEPH	407			13.5	38.8	mg/kg
Total EPH	Total EPH	407			13.5	38.8	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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Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055161.D	1	08/06/25	08/06/25	PB169139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	281	E	1.18	5.16	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	122	E	1.53	2.59	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	68.9		40 - 140	138%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.1		40 - 140	56%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2774-14	Acq On:	06 Aug 2025 21:08
Client Sample ID:	254-E2	Operator:	YP\AJ
Data file:	FE055161.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.325	6.958	757233	6.484	300	ug/ml
Aliphatic C12-C16	6.959	10.409	18782977	149.991	200	ug/ml
Aliphatic C16-C21	10.410	13.787	257710633	2040	300	ug/ml
Aliphatic C21-C28	13.788	17.457	129728178	1080	400	ug/ml
Aliphatic C28-C40	17.458	22.476	162390680	1420	600	ug/ml
Aliphatic EPH	3.325	22.476	569369701	4700		ug/ml
ortho-Terphenyl (SURR)	12.091	12.091	4013786	28.11		ug/ml
1-chlorooctadecane (SURR)	13.520	13.520	7411895	68.93		ug/ml
Aliphatic C9-C28	3.325	17.457	406979021	3270	1200	ug/ml