

Report of Analysis

Client:	PSEG	Date Collected:	08/05/25
Project:	Bridgewater Switch	Date Received:	08/05/25
Client Sample ID:	248	SDG No.:	Q2774
Lab Sample ID:	Q2774-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.7
Sample Wt/Vol:	30.03	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 12:24	PB169139

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	50.5		2	2.60	4.41	mg/kg FE055174.D
Aliphatic C9-C28	Aliphatic C9-C28	867		10	10.0	44.0	mg/kg FE055175.D
Total AliphaticEPH	Total AliphaticEPH	917			12.6	48.5	mg/kg
Total EPH	Total EPH	917			12.6	48.5	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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Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055156.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	786	E	1.00	4.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	45.7	E	1.30	2.20	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.5		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.9		40 - 140	88%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2774-09	Acq On:	06 Aug 2025 18:37
Client Sample ID:	248	Operator:	YP\AJ
Data file:	FE055156.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	3.325	6.958	2089233	17.89	300	ug/ml
Aliphatic C12-C16	6.959	10.409	95165970	759.947	200	ug/ml
Aliphatic C16-C21	10.410	13.787	774978376	6130	300	ug/ml
Aliphatic C21-C28	13.788	17.457	458531525	3810	400	ug/ml
Aliphatic C28-C40	17.458	22.476	71005712	622.927	600	ug/ml
Aliphatic EPH	3.325	22.476	1401770816	11300		ug/ml
ortho-Terphenyl (SURR)	12.093	12.093	6270206	43.91		ug/ml
1-chlorooctadecane (SURR)	13.538	13.538	4252272	39.55		ug/ml
Aliphatic C9-C28	3.325	17.457	1330765104	10700	1200	ug/ml