

Report of Analysis

Client:	PSEG	Date Collected:	03/26/25
Project:	Bridgewater Switch	Date Received:	03/26/25
Client Sample ID:	VNJ239-E2	SDG No.:	Q1656
Lab Sample ID:	Q1656-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.3
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
03/27/25 09:55	03/28/25 10:04	PB167350

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	80.1		5	6.99	11.8	mg/kg FE053039.D
Aliphatic C9-C28	Aliphatic C9-C28	4500		100	108	472	mg/kg FE053040.D
Total AliphaticEPH	Total AliphaticEPH	4580			115	484	mg/kg
Total EPH	Total EPH	4580			115	484	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
FE053024.D	1	03/27/25	03/27/25	PB167350

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4240	E	1.08	4.73	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	79.0	E	1.40	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	0.00		40 - 140	0%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1656-02	Acq On:	27 Mar 2025 18:23
Client Sample ID:	VNJ239-E2	Operator:	YP\AJ
Data file:	FE053024.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	3.143	6.785	13647784	87.515	300	ug/ml
Aliphatic C12-C16	6.786	10.236	1102235159	7250	200	ug/ml
Aliphatic C16-C21	10.237	13.612	5061812117	34500	300	ug/ml
Aliphatic C21-C28	13.613	17.282	1692896421	11900	400	ug/ml
Aliphatic C28-C40	17.283	22.191	127701884	1000	600	ug/ml
Aliphatic EPH	3.143	22.191	7998293365	54800		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.143	17.282	7870591481	53800	1200	ug/ml