

Report of Analysis

Client:	PSEG	Date Collected:	07/02/25
Project:	Orange Gas	Date Received:	07/02/25
Client Sample ID:	EO-1-070225	SDG No.:	Q2491
Lab Sample ID:	Q2491-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.4
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
07/03/25 09:30	07/07/25 11:56	PB168723

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	157		10	12.7	21.6	mg/kg FE054701.D
Aliphatic C9-C28	Aliphatic C9-C28	125		10	9.82	43.2	mg/kg FE054701.D
Total AliphaticEPH	Total AliphaticEPH	282			22.5	64.8	mg/kg
Total EPH	Total EPH	282			22.5	64.8	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054699.D	1	07/03/25	07/07/25	PB168723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	119	E	0.98	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	149	E	1.27	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.6		40 - 140	59%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.9		40 - 140	58%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2491-01	Acq On:	07 Jul 2025 10:55
Client Sample ID:	EO-1-070225	Operator:	YP\AJ
Data file:	FE054699.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	3.322	6.953	45455770	334.098	300	ug/ml
Aliphatic C12-C16	6.954	10.404	143639763	1020	200	ug/ml
Aliphatic C16-C21	10.405	13.782	23551018	163.103	300	ug/ml
Aliphatic C21-C28	13.783	17.452	19914056	137.669	400	ug/ml
Aliphatic C28-C40	17.453	22.469	288701162	2080	600	ug/ml
Aliphatic EPH	3.322	22.469	521261769	3740		ug/ml
ortho-Terphenyl (SURR)	12.080	12.080	4687349	28.86		ug/ml
1-chlorooctadecane (SURR)	13.516	13.516	3742421	29.63		ug/ml
Aliphatic C9-C28	3.322	17.452	232560607	1660	1200	ug/ml