

Report of Analysis

Client:	PSEG	Date Collected:	10/30/24
Project:	Orange Gas	Date Received:	10/30/24
Client Sample ID:	EO-02-103024-E2	SDG No.:	P4639
Lab Sample ID:	P4639-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.5
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
10/31/24 07:55	11/01/24 11:53	PB164554

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	52.6		2	4.02	4.46	mg/kg	FF014900.D
Aliphatic C9-C28	Aliphatic C9-C28	3.02	J	1	1.92	4.47	mg/kg	FF014891.D
Total AliphaticEPH	Total AliphaticEPH	55.6			5.94	8.93	mg/kg	
Total EPH	Total EPH	55.6			5.94	8.93	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
FF014891.D	1	10/31/24	10/31/24	PB164554

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.02	J	1.92	4.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	51.7	E	2.01	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.1		40 - 140	58%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.1		40 - 140	56%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4639-04	Acq On:	31 Oct 2024 23:42
Client Sample ID:	EO-02-103024-E2	Operator:	YP\AJ
Data file:	FF014891.D	Misc:	
Instrument:	FID_F	ALS Vial:	79
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.224	6.833	534813	4.193	300	ug/ml
Aliphatic C12-C16	6.834	10.264	924119	7.008	200	ug/ml
Aliphatic C16-C21	10.265	13.627	1891394	13.745	300	ug/ml
Aliphatic C21-C28	13.628	17.287	2752223	19.848	400	ug/ml
Aliphatic C28-C40	17.288	22.176	78517945	695.483	600	ug/ml
Aliphatic EPH	3.224	22.176	84620494	740.277		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	4291949	28.15		ug/ml
1-chlorooctadecane (SURR)	13.367	13.367	3492746	29.07		ug/ml
Aliphatic C9-C28	3.224	17.287	6102549	44.794	1200	ug/ml