

Report of Analysis

Client:	PSEG	Date Collected:	09/30/25
Project:	Orange Gas	Date Received:	09/30/25
Client Sample ID:	SOIL-PILE-2-WC	SDG No.:	Q3256
Lab Sample ID:	Q3256-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.3
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/01/25 08:35	10/01/25 19:07	PB169929

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	31.8		1	1.37	2.32	mg/kg	FE056136.D
Aliphatic C9-C28	Aliphatic C9-C28	108		5	5.27	23.2	mg/kg	FE056143.D
Total AliphaticEPH	Total AliphaticEPH	140			6.64	25.5	mg/kg	
Total EPH	Total EPH	140			6.64	25.5	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056136.D	1	10/01/25	10/01/25	PB169929

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	98.8	E	1.05	4.63	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	31.8		1.37	2.32	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.3		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.7		40 - 140	53%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3256-05	Acq On:	01 Oct 2025 19:07
Client Sample ID:	SOIL-PILE-2-WC	Operator:	YP\AJ
Data file:	FE056136.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.312	6.945	1786414	12.758	300	ug/ml
Aliphatic C12-C16	6.946	10.396	20554484	134.013	200	ug/ml
Aliphatic C16-C21	10.397	13.772	96101391	579.344	300	ug/ml
Aliphatic C21-C28	13.773	17.442	82296514	554.084	400	ug/ml
Aliphatic C28-C40	17.443	22.449	56063649	411.471	600	ug/ml
Aliphatic EPH	3.312	22.449	256802452	1690		ug/ml
ortho-Terphenyl (SURR)	12.074	12.074	5007089	26.68		ug/ml
1-chlorooctadecane (SURR)	13.508	13.508	5341120	38.27		ug/ml
Aliphatic C9-C28	3.312	17.442	200738803	1280	1200	ug/ml