

Report of Analysis

Client:	PSEG	Date Collected:	07/09/25
Project:	Oradell Gas	Date Received:	07/09/25
Client Sample ID:	HACKENSACK	SDG No.:	Q2539
Lab Sample ID:	Q2539-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
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
07/10/25 09:25	07/11/25 9:18	PB168786

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	124		10	12.5	21.3	mg/kg FE054803.D
Aliphatic C9-C28	Aliphatic C9-C28	22.4		1	0.97	4.25	mg/kg FE054784.D
Total AliphaticEPH	Total AliphaticEPH	146			13.5	25.5	mg/kg
Total EPH	Total EPH	146			13.5	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054784.D	1	07/10/25	07/10/25	PB168786

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	22.4		0.97	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	111	E	1.25	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.6		40 - 140	51%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.6		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2539-01	Acq On:	10 Jul 2025 17:22
Client Sample ID:	HACKENSACK	Operator:	YP\AJ
Data file:	FE054784.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	3.319	6.952	2864262	21.052	300	ug/ml
Aliphatic C12-C16	6.953	10.404	6185821	44.006	200	ug/ml
Aliphatic C16-C21	10.405	13.781	14284036	98.924	300	ug/ml
Aliphatic C21-C28	13.782	17.452	22012918	152.179	400	ug/ml
Aliphatic C28-C40	17.453	22.471	217299599	1570	600	ug/ml
Aliphatic EPH	3.319	22.471	262646636	1880		ug/ml
ortho-Terphenyl (SURR)	12.079	12.079	3678886	22.65		ug/ml
1-chlorooctadecane (SURR)	13.516	13.516	3239999	25.65		ug/ml
Aliphatic C9-C28	3.319	17.452	45347037	316.161	1200	ug/ml