

Report of Analysis

Client:	PSEG	Date Collected:	03/19/25
Project:	414 Grand Street Gas Pipe Repair	Date Received:	03/19/25
Client Sample ID:	CHRT24743	SDG No.:	Q1606
Lab Sample ID:	Q1606-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.4
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
03/20/25 08:55	03/20/25 16:09	PB167227

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	12.8		1	1.30	2.21	mg/kg FE052889.D
Aliphatic C9-C28	Aliphatic C9-C28	8.47		1	1.01	4.41	mg/kg FE052889.D
Total AliphaticEPH	Total AliphaticEPH	21.3			2.31	6.62	mg/kg
Total EPH	Total EPH	21.3			2.31	6.62	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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Analytical Method:	NJEPH	% Solid:	90.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052889.D	1	03/20/25	03/20/25	PB167227

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	8.47		1.01	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	12.8		1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.7		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.9		40 - 140	62%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1606-01	Acq On:	20 Mar 2025 16:09
Client Sample ID:	CHRT24743	Operator:	YP\AJ
Data file:	FE052889.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.145	6.789	2614738	16.767	300	ug/ml
Aliphatic C12-C16	6.790	10.242	4808866	31.617	200	ug/ml
Aliphatic C16-C21	10.243	13.619	4371998	29.833	300	ug/ml
Aliphatic C21-C28	13.620	17.291	5247971	36.84	400	ug/ml
Aliphatic C28-C40	17.292	22.204	22238739	174.3	600	ug/ml
Aliphatic EPH	3.145	22.204	39282312	289.357		ug/ml
ortho-Terphenyl (SURR)	11.904	11.904	5204281	30.87		ug/ml
1-chlorooctadecane (SURR)	13.348	13.348	4087279	33.66		ug/ml
Aliphatic C9-C28	3.145	17.291	17043573	115.057	1200	ug/ml