

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:	RT4534	SDG No.:	Q1606
Lab Sample ID:	Q1606-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.2
Sample Wt/Vol:	30.03	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 18:40	PB167227

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	13.7		1	1.31	2.22	mg/kg FE052894.D
Aliphatic C9-C28	Aliphatic C9-C28	16.7		1	1.01	4.44	mg/kg FE052894.D
Total AliphaticEPH	Total AliphaticEPH	30.4			2.32	6.66	mg/kg
Total EPH	Total EPH	30.4			2.32	6.66	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:	90.2
Sample Wt/Vol:	30.03 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
FE052894.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	16.7		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.7		1.31	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.6		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.8		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1606-05	Acq On:	20 Mar 2025 18:40
Client Sample ID:	RT4534	Operator:	YP\AJ
Data file:	FE052894.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.145	6.789	1756305	11.262	300	ug/ml
Aliphatic C12-C16	6.790	10.242	2594414	17.057	200	ug/ml
Aliphatic C16-C21	10.243	13.619	12719592	86.795	300	ug/ml
Aliphatic C21-C28	13.620	17.291	15771879	110.717	400	ug/ml
Aliphatic C28-C40	17.292	22.204	23721114	185.918	600	ug/ml
Aliphatic EPH	3.145	22.204	56563304	411.749		ug/ml
ortho-Terphenyl (SURR)	11.905	11.905	6040053	35.83		ug/ml
1-chlorooctadecane (SURR)	13.349	13.349	5175245	42.62		ug/ml
Aliphatic C9-C28	3.145	17.291	32842190	225.831	1200	ug/ml