

Report of Analysis

Client:	PSEG	Date Collected:	04/16/25
Project:	Central Ave Substation	Date Received:	04/16/25
Client Sample ID:	SOIL-PILE	SDG No.:	Q1826
Lab Sample ID:	Q1826-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.7
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/17/25 11:10	04/17/25 16:43	PB167630

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	28.5		1	1.39	2.36	mg/kg FE053400.D
Aliphatic C9-C28	Aliphatic C9-C28	25.1		1	1.07	4.72	mg/kg FE053400.D
Total AliphaticEPH	Total AliphaticEPH	53.6			2.46	7.08	mg/kg
Total EPH	Total EPH	53.6			2.46	7.08	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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Sample Wt/Vol:	30.06 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
FE053400.D	1	04/17/25	04/17/25	PB167630

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	25.1		1.07	4.72	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	28.5		1.39	2.36	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.6		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.9		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1826-01	Acq On:	17 Apr 2025 16:43
Client Sample ID:	SOIL-PILE	Operator:	YP\AJ
Data file:	FE053400.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.127	6.767	1319072	9.52	300	ug/ml
Aliphatic C12-C16	6.768	10.216	1684869	11.882	200	ug/ml
Aliphatic C16-C21	10.217	13.591	6545229	45.027	300	ug/ml
Aliphatic C21-C28	13.592	17.260	36088431	253.832	400	ug/ml
Aliphatic C28-C40	17.261	22.153	46895331	363.391	600	ug/ml
Aliphatic EPH	3.127	22.153	92532932	683.651		ug/ml
ortho-Terphenyl (SURR)	11.878	11.878	5391612	29.89		ug/ml
1-chlorooctadecane (SURR)	13.323	13.323	4277804	31.65		ug/ml
Aliphatic C9-C28	3.127	17.260	45637601	320.261	1200	ug/ml