

Report of Analysis

Client:	PSEG	Date Collected:	07/01/25
Project:	Watchang Bridge Replacement	Date Received:	07/01/25
Client Sample ID:	SOIL-PILE-E2	SDG No.:	Q2475
Lab Sample ID:	Q2475-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/02/25 11:05	07/02/25 17:19	PB168702

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.92		1	1.45	2.46	mg/kg	FE054671.D
Aliphatic C9-C28	Aliphatic C9-C28	8.52		1	1.12	4.92	mg/kg	FE054671.D
Total AliphaticEPH	Total AliphaticEPH	16.4			2.57	7.38	mg/kg	
Total EPH	Total EPH	16.4			2.57	7.38	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
FE054671.D	1	07/02/25	07/02/25	PB168702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	8.52		1.12	4.92	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.92		1.45	2.46	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.2		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.7		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2475-02	Acq On:	02 Jul 2025 17:19
Client Sample ID:	SOIL-PILE-E2	Operator:	YP\AJ
Data file:	FE054671.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.319	6.951	2388874	17.558	300	ug/ml
Aliphatic C12-C16	6.952	10.402	1300471	9.252	200	ug/ml
Aliphatic C16-C21	10.403	13.777	4921807	34.086	300	ug/ml
Aliphatic C21-C28	13.778	17.448	6197774	42.846	400	ug/ml
Aliphatic C28-C40	17.449	22.462	13382016	96.518	600	ug/ml
Aliphatic EPH	3.319	22.462	28190942	200.26		ug/ml
ortho-Terphenyl (SURR)	12.077	12.077	4503674	27.73		ug/ml
1-chlorooctadecane (SURR)	13.513	13.513	3565867	28.23		ug/ml
Aliphatic C9-C28	3.319	17.448	14808926	103.742	1200	ug/ml