

## Report of Analysis

Client:	PSEG	Date Collected:	04/07/25
Project:	Trenton District Headquarters	Date Received:	04/07/25
Client Sample ID:	ARS20-0008-E2	SDG No.:	Q1747
Lab Sample ID:	Q1747-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.3
Sample Wt/Vol:	30.05      Units: g	Final Vol:	2000      uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/09/25 9:09	PB167512

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
<b>TARGETS</b>							
Aliphatic C28-C40	Aliphatic C28-C40	504		20	24.7	41.9	mg/kg FE053269.D
Aliphatic C9-C28	Aliphatic C9-C28	430		20	19.1	83.9	mg/kg FE053269.D
Total AliphaticEPH	Total AliphaticEPH	934			43.8	126	mg/kg
Total EPH	Total EPH	934			43.8	126	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
FE053255.D	1	04/08/25	04/09/25	PB167512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
Aliphatic C9-C28	Aliphatic C9-C28	461	E	0.95	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	552	E	1.24	2.10	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	37.3		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.9		40 - 140	70%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1747-02	Acq On:	09 Apr 2025 01:09
Client Sample ID:	ARS20-0008-E2	Operator:	YP\AJ
Data file:	FE053255.D	Misc:	
Instrument:	FID_E	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.782	2222373	14.243	300	ug/ml
Aliphatic C12-C16	6.783	10.234	4023649	26.19	200	ug/ml
Aliphatic C16-C21	10.235	13.613	30094392	208.501	300	ug/ml
Aliphatic C21-C28	13.614	17.285	855404679	6370	400	ug/ml
Aliphatic C28-C40	17.286	22.199	983146373	7910	600	ug/ml
Aliphatic EPH	3.139	22.199	1874891466	14500		ug/ml
ortho-Terphenyl (SURR)	11.892	11.892	5677419	34.86		ug/ml
1-chlorooctadecane (SURR)	13.339	13.339	4476940	37.29		ug/ml
Aliphatic C9-C28	3.139	17.285	891745093	6620	1200	ug/ml