

Report of Analysis

Client:	PSEG	Date Collected:	06/27/25
Project:	Deans Switching Station	Date Received:	06/27/25
Client Sample ID:	500-3B	SDG No.:	Q2442
Lab Sample ID:	Q2442-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
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
06/30/25 08:50	06/30/25 21:00	PB168656

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	23.4		1	1.18	2.00	mg/kg	FE054639.D
Aliphatic C9-C28	Aliphatic C9-C28	75.6		1	0.91	3.99	mg/kg	FE054639.D
Total AliphaticEPH	Total AliphaticEPH	99.0			2.09	5.99	mg/kg	
Total EPH	Total EPH	99.0			2.09	5.99	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054639.D	1	06/30/25	06/30/25	PB168656

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	75.6		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	23.4		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.0		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.5		40 - 140	83%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2442-01	Acq On:	30 Jun 2025 21:00
Client Sample ID:	500-3B	Operator:	YP\AJ
Data file:	FE054639.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	3.322	6.949	2375417	17.459	300	ug/ml
Aliphatic C12-C16	6.950	10.397	8694783	61.855	200	ug/ml
Aliphatic C16-C21	10.398	13.771	112046043	775.976	300	ug/ml
Aliphatic C21-C28	13.772	17.439	40611039	280.75	400	ug/ml
Aliphatic C28-C40	17.440	22.445	48853664	352.359	600	ug/ml
Aliphatic EPH	3.322	22.445	212580946	1490		ug/ml
ortho-Terphenyl (SURR)	12.077	12.077	6739174	41.5		ug/ml
1-chlorooctadecane (SURR)	13.513	13.513	4802839	38.03		ug/ml
Aliphatic C9-C28	3.322	17.439	163727282	1140	1200	ug/ml