

Report of Analysis

Client:	PSEG	Date Collected:	08/05/25
Project:	Deans Switching Station	Date Received:	08/05/25
Client Sample ID:	500-3B-SOIL-E2	SDG No.:	Q2772
Lab Sample ID:	Q2772-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/06/25 09:25	08/06/25 15:06	PB169139

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.48		1	1.31	2.21	mg/kg	FE055149.D
Aliphatic C9-C28	Aliphatic C9-C28	579		10	10.1	44.4	mg/kg	FE055168.D
Total AliphaticEPH	Total AliphaticEPH	587			11.4	46.6	mg/kg	
Total EPH	Total EPH	587			11.4	46.6	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
FE055149.D	1	08/06/25	08/06/25	PB169139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	619	E	1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.48		1.31	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	56.4		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	57.6		40 - 140	115%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2772-02	Acq On:	06 Aug 2025 15:06
Client Sample ID:	500-3B-SOIL-E2	Operator:	YP\AJ
Data file:	FE055149.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	3.325	6.958	475959	4.076	300	ug/ml
Aliphatic C12-C16	6.959	10.409	78642627	628	200	ug/ml
Aliphatic C16-C21	10.410	13.787	714765383	5650	300	ug/ml
Aliphatic C21-C28	13.788	17.457	254617499	2110	400	ug/ml
Aliphatic C28-C40	17.458	22.476	11559205	101.408	600	ug/ml
Aliphatic EPH	3.325	22.476	1060060673	8500		ug/ml
ortho-Terphenyl (SURR)	12.096	12.096	8230328	57.63		ug/ml
1-chlorooctadecane (SURR)	13.534	13.534	6062854	56.39		ug/ml
Aliphatic C9-C28	3.325	17.457	1048501468	8400	1200	ug/ml