

Report of Analysis

Client:	PSEG	Date Collected:	08/13/25
Project:	Waldwick Switching Station	Date Received:	08/13/25
Client Sample ID:	DRILL CUTTING 1-5 COMP-EPH-2	SDG No.:	Q2870
Lab Sample ID:	Q2870-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
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
08/15/25 09:30	08/15/25 21:59	PB169265

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.07		1	1.33	2.26	mg/kg	FE055339.D
Aliphatic C9-C28	Aliphatic C9-C28	6.30		1	1.03	4.51	mg/kg	FE055339.D
Total AliphaticEPH	Total AliphaticEPH	12.4			2.36	6.77	mg/kg	
Total EPH	Total EPH	12.4			2.36	6.77	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055339.D	1	08/15/25	08/15/25	PB169265

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.30		1.03	4.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.07		1.33	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.6		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.2		40 - 140	82%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2870-02	Acq On:	15 Aug 2025 21:59
Client Sample ID:	DRILL CUTTING 1-5 COM	Operator:	YP\AJ
Data file:	FE055339.D	Misc:	
Instrument:	FID_E	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.321	6.954	875624	7.498	300	ug/ml
Aliphatic C12-C16	6.955	10.407	1642155	13.113	200	ug/ml
Aliphatic C16-C21	10.408	13.785	6741350	53.331	300	ug/ml
Aliphatic C21-C28	13.786	17.458	1193770	9.906	400	ug/ml
Aliphatic C28-C40	17.459	22.482	9194653	80.664	600	ug/ml
Aliphatic EPH	3.321	22.482	19647552	164.513		ug/ml
ortho-Terphenyl (SURR)	12.083	12.083	5884189	41.2		ug/ml
1-chlorooctadecane (SURR)	13.519	13.519	4584026	42.63		ug/ml
Aliphatic C9-C28	3.321	17.458	10452899	83.848	1200	ug/ml