

Report of Analysis

Client:	PSEG	Date Collected:	01/15/25
Project:	Metuchen Switch	Date Received:	01/15/25
Client Sample ID:	OILY-STONE-COMP	SDG No.:	Q1098
Lab Sample ID:	Q1098-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.5
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
01/16/25 09:24	01/17/25 12:14	PB166075

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	689		20	39.3	43.6	mg/kg FG015115.D
Aliphatic C9-C28	Aliphatic C9-C28	941		20	37.6	87.2	mg/kg FG015115.D
Total AliphaticEPH	Total AliphaticEPH	1630			76.9	131	mg/kg
Total EPH	Total EPH	1630			76.9	131	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015102.D	1	01/16/25	01/16/25	PB166075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	927	E	1.88	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	690	E	1.96	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.9		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		40 - 140	67%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1098-02	Acq On:	16 Jan 2025 20:10
Client Sample ID:	OILY-STONE-COMP	Operator:	YP\AJ
Data file:	FG015102.D	Misc:	
Instrument:	FID_G	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.184	6.824	2875641	21.639	300	ug/ml
Aliphatic C12-C16	6.825	10.276	1619979	11.472	200	ug/ml
Aliphatic C16-C21	10.277	13.654	72617186	502.476	300	ug/ml
Aliphatic C21-C28	13.655	17.329	1669863751	12200	400	ug/ml
Aliphatic C28-C40	17.330	22.271	1002154647	9490	600	ug/ml
Aliphatic EPH	3.184	22.271	2749131204	22200		ug/ml
ortho-Terphenyl (SURR)	11.949	11.949	5228868	33.44		ug/ml
1-chlorooctadecane (SURR)	13.400	13.400	4495035	36.92		ug/ml
Aliphatic C9-C28	3.184	17.329	1746976557	12800	1200	ug/ml