

Report of Analysis

Client:	PSEG	Date Collected:	12/30/24
Project:	Roseland Switch	Date Received:	12/30/24
Client Sample ID:	341-349	SDG No.:	P5398
Lab Sample ID:	P5398-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.8
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
12/31/24 08:11	12/31/24 13:58	PB165926

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	5.02		1	2.02	2.25	mg/kg FG015048.D
Aliphatic C9-C28	Aliphatic C9-C28	2.48	J	1	1.93	4.49	mg/kg FG015048.D
Total AliphaticEPH	Total AliphaticEPH	7.50			3.95	6.74	mg/kg
Total EPH	Total EPH	7.50			3.95	6.74	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
FG015048.D	1	12/31/24	12/31/24	PB165926

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.48	J	1.93	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.02		2.02	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.3		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.8		40 - 140	66%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5398-01	Acq On:	31 Dec 2024 13:58
Client Sample ID:	341-349	Operator:	YP\AJ
Data file:	FG015048.D	Misc:	
Instrument:	FID_G	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.189	22.277	12854330	100.023		ug/ml
ortho-Terphenyl (SURR)	11.947	11.947	5175337	32.81		ug/ml
1-chlorooctadecane (SURR)	13.392	13.392	4331503	34.28		ug/ml
Aliphatic C9-C12	3.189	6.828	778443	5.983	300	ug/ml
Aliphatic C12-C16	6.829	10.280	977278	7.119	200	ug/ml
Aliphatic C16-C21	10.281	13.661	1086887	7.469	300	ug/ml
Aliphatic C21-C28	13.662	17.334	1849966	12.432	400	ug/ml
Aliphatic C28-C40	17.335	22.277	8161756	67.019	600	ug/ml
Aliphatic C9-C28	3.189	17.334	4692574	33.003	1200	ug/ml