

Report of Analysis

Client:	PSEG	Date Collected:	10/17/24
Project:	OG- 315 - HR-502 Bloomfield Belleville	Date Received:	10/18/24
Client Sample ID:	OG-315-HR-502-COMP-29	SDG No.:	P4443
Lab Sample ID:	P4443-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92
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
10/21/24 09:20	10/21/24 15:07	PB164285

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	26.4		1	1.95	2.17	mg/kg	FE050741.D
Aliphatic C9-C28	Aliphatic C9-C28	4.64		1	1.87	4.35	mg/kg	FE050741.D
Total AliphaticEPH	Total AliphaticEPH	31.0			3.82	6.52	mg/kg	
Total EPH	Total EPH	31.0			3.82	6.52	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
FE050741.D	1	10/21/24	10/21/24	PB164285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.64		1.87	4.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.4		1.95	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.4		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.6		40 - 140	57%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4443-01	Acq On:	21 Oct 2024 15:07
Client Sample ID:	OG-315-HR-502-COMP-29	Operator:	YP\AJ
Data file:	FE050741.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.152	6.770	355829	2.49	300	ug/ml
Aliphatic C12-C16	6.771	10.205	912012	6.285	200	ug/ml
Aliphatic C16-C21	10.206	13.566	2673267	18.513	300	ug/ml
Aliphatic C21-C28	13.567	17.223	5601239	39.402	400	ug/ml
Aliphatic C28-C40	17.224	22.084	50424019	364.59	600	ug/ml
Aliphatic EPH	3.152	22.084	59966366	431.28		ug/ml
ortho-Terphenyl (SURR)	11.867	11.867	4500747	28.55		ug/ml
1-chlorooctadecane (SURR)	13.302	13.302	3600781	30.44		ug/ml
Aliphatic C9-C28	3.152	17.223	9542347	66.69	1200	ug/ml