

Report of Analysis

Client:	PSEG	Date Collected:	06/04/25
Project:	Roseland Switch	Date Received:	06/04/25
Client Sample ID:	RBR251425	SDG No.:	Q2214
Lab Sample ID:	Q2214-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	63.2
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/05/25 10:10	06/05/25 23:49	PB168301

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	8.10		1	1.86	3.16	mg/kg FG015951.D
Aliphatic C9-C28	Aliphatic C9-C28	240		5	7.18	31.5	mg/kg FG015958.D
Total AliphaticEPH	Total AliphaticEPH	248			9.04	34.7	mg/kg
Total EPH	Total EPH	248			9.04	34.7	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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Analytical Method:	NJEPH	% Solid:	63.2
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015951.D	1	06/05/25	06/05/25	PB168301

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	251	E	1.44	6.31	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.10		1.86	3.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	54.4		40 - 140	109%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.9		40 - 140	92%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2214-01	Acq On:	05 Jun 2025 23:49
Client Sample ID:	RBR251425	Operator:	YP\AJ
Data file:	FG015951.D	Misc:	
Instrument:	FID_G	ALS Vial:	37
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.120	6.765	534311	4.707	300	ug/ml
Aliphatic C12-C16	6.766	10.215	29737765	254.767	200	ug/ml
Aliphatic C16-C21	10.216	13.591	196552493	1610	300	ug/ml
Aliphatic C21-C28	13.592	17.262	62738220	522.188	400	ug/ml
Aliphatic C28-C40	17.263	22.162	8501926	76.987	600	ug/ml
Aliphatic EPH	3.120	22.162	298064715	2470		ug/ml
ortho-Terphenyl (SURR)	11.880	11.880	6829276	45.87		ug/ml
1-chlorooctadecane (SURR)	13.325	13.325	6269236	54.42		ug/ml
Aliphatic C9-C28	3.120	17.262	289562789	2390	1200	ug/ml