

Report of Analysis

Client:	PSEG	Date Collected:	11/26/24
Project:	Livingston Substation	Date Received:	11/26/24
Client Sample ID:	STOCK-PILE	SDG No.:	P5005
Lab Sample ID:	P5005-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.6
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
11/27/24 09:00	11/27/24 14:54	PB165295

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.25	U	1	2.03	2.25	mg/kg	FE051484.D
Aliphatic C9-C28	Aliphatic C9-C28	4.51	U	1	1.94	4.51	mg/kg	FE051484.D
Total AliphaticEPH	Total AliphaticEPH	6.76	U		3.97	6.76	mg/kg	
Total EPH	Total EPH	6.76	U		3.97	6.76	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
FE051484.D	1	11/27/24	11/27/24	PB165295

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.94	4.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.25	U	2.03	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.7		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.1		40 - 140	84%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5005-01	Acq On:	27 Nov 2024 14:54
Client Sample ID:	STOCK-PILE	Operator:	YP\AJ
Data file:	FE051484.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	3.124	6.738	1240617	8.867	300	ug/ml
Aliphatic C12-C16	6.739	10.169	306943	2.183	200	ug/ml
Aliphatic C16-C21	10.170	13.529	1269878	9.218	300	ug/ml
Aliphatic C21-C28	13.530	17.182	1039693	7.762	400	ug/ml
Aliphatic C28-C40	17.183	22.015	1636174	12.708	600	ug/ml
Aliphatic EPH	3.124	22.015	5493305	40.737		ug/ml
ortho-Terphenyl (SURR)	11.832	11.832	6315073	42.07		ug/ml
1-chlorooctadecane (SURR)	13.264	13.264	5184196	45.66		ug/ml
Aliphatic C9-C28	3.124	17.182	3857131	28.03	1200	ug/ml