

Report of Analysis

Client:	PSEG	Date Collected:	10/25/24
Project:	Penhorn Substation	Date Received:	10/25/24
Client Sample ID:	GRAVEL-1	SDG No.:	P4574
Lab Sample ID:	P4574-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/26/24 09:00	10/28/24 16:30	PB164436

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	36.7		1	1.80	1.99	mg/kg FG014536.D
Aliphatic C9-C28	Aliphatic C9-C28	426		10	17.1	39.9	mg/kg FG014545.D
Total AliphaticEPH	Total AliphaticEPH	462			18.9	41.9	mg/kg
Total EPH	Total EPH	462			18.9	41.9	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
FG014536.D	1	10/26/24	10/28/24	PB164436

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	430	E	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	36.7		1.80	1.99	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.5		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.9		40 - 140	86%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4574-01	Acq On:	28 Oct 2024 16:30
Client Sample ID:	GRAVEL-1	Operator:	YP\AJ
Data file:	FG014536.D	Misc:	
Instrument:	FID_G	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.242	6.863	3306675	25.176	300	ug/ml
Aliphatic C12-C16	6.864	10.305	5632136	41.467	200	ug/ml
Aliphatic C16-C21	10.306	13.674	393308721	2780	300	ug/ml
Aliphatic C21-C28	13.675	17.337	511147037	3640	400	ug/ml
Aliphatic C28-C40	17.338	22.267	58414230	552.71	600	ug/ml
Aliphatic EPH	3.242	22.267	971808799	7040		ug/ml
ortho-Terphenyl (SURR)	11.979	11.979	6574313	42.89		ug/ml
1-chlorooctadecane (SURR)	13.421	13.421	4854328	39.53		ug/ml
Aliphatic C9-C28	3.242	17.337	913394569	6490	1200	ug/ml