

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	05/23/25	
Project:	LOD-LOQ-MDL Study		Date Received:	05/23/25	
Client Sample ID:	LOD-MDL-SOIL-03-QT2-2025		SDG No.:	Q2126	
Lab Sample ID:	Q2126-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:00	06/16/25 11:57	PB168408

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.34	J	1	0.14	1.00	mg/kg	FG016095.D
Aliphatic C12-C16	Aliphatic C12-C16	0.28	J	1	0.11	0.67	mg/kg	FG016095.D
Aliphatic C16-C21	Aliphatic C16-C21	0.44	J	1	0.13	1.00	mg/kg	FG016095.D
Aliphatic C21-C28	Aliphatic C21-C28	0.61	J	1	0.53	1.33	mg/kg	FG016095.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FG016095.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		2.09	5.99	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

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E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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* = Values outside of QC limits

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Aliphatic C12-C16	Aliphatic C12-C16	0.28	J	1	0.11	0.67	mg/kg	FG016095.D
Aliphatic C16-C21	Aliphatic C16-C21	0.44	J	1	0.13	1.00	mg/kg	FG016095.D
Aliphatic C21-C28	Aliphatic C21-C28	0.61	J	1	0.53	1.33	mg/kg	FG016095.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FG016095.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		2.09	5.99	mg/kg	

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Soil Aliquot Vol:		uL	Test:	EPH
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06/11/25 08:00	06/16/25 11:57	PB168408

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.36	J	1	0.12	0.67	mg/kg	FF015995.D
Aromatic C12-C16	Aromatic C12-C16	0.56	J	1	0.23	1.00	mg/kg	FF015995.D
Aromatic C16-C21	Aromatic C16-C21	0.98	J	1	0.40	1.66	mg/kg	FF015995.D
Aromatic C21-C36	Aromatic C21-C36	1.58	J	1	1.19	2.66	mg/kg	FF015995.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.48	J		1.94	5.99	mg/kg	
Total EPH	Total EPH	3.48	J		1.94	5.99	mg/kg	

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CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.67	J	1	0.14	1.00	mg/kg	FF016009.D
Aliphatic C12-C16	Aliphatic C12-C16	0.54	J	1	0.11	0.67	mg/kg	FF016009.D
Aliphatic C16-C21	Aliphatic C16-C21	0.86	J	1	0.13	1.00	mg/kg	FF016009.D
Aliphatic C21-C28	Aliphatic C21-C28	1.19	J	1	0.53	1.33	mg/kg	FF016009.D
Aliphatic C28-C40	Aliphatic C28-C40	2.18		1	1.18	2.00	mg/kg	FF016009.D
Total AliphaticEPH	Total AliphaticEPH	5.44	J		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.44	J		2.09	5.99	mg/kg	

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Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
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TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.67	J	1	0.14	1.00	mg/kg	FF016009.D
Aliphatic C12-C16	Aliphatic C12-C16	0.54	J	1	0.11	0.67	mg/kg	FF016009.D
Aliphatic C16-C21	Aliphatic C16-C21	0.86	J	1	0.13	1.00	mg/kg	FF016009.D
Aliphatic C21-C28	Aliphatic C21-C28	1.19	J	1	0.53	1.33	mg/kg	FF016009.D
Aliphatic C28-C40	Aliphatic C28-C40	2.18		1	1.18	2.00	mg/kg	FF016009.D
Total AliphaticEPH	Total AliphaticEPH	5.44	J		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.44	J		2.09	5.99	mg/kg	

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Lab Sample ID:	Q2126-01		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	100
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
Prep Method :				

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/12/25 11:09	PB168408

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.28	J	1	0.14	1.00	mg/kg	FE054332.D
Aliphatic C12-C16	Aliphatic C12-C16	0.26	J	1	0.11	0.67	mg/kg	FE054332.D
Aliphatic C16-C21	Aliphatic C16-C21	0.45	J	1	0.13	1.00	mg/kg	FE054332.D
Aliphatic C21-C28	Aliphatic C21-C28	0.61	J	1	0.53	1.33	mg/kg	FE054332.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FE054332.D
Aromatic C10-C12	Aromatic C10-C12	0.26	J	1	0.12	0.67	mg/kg	FD049435.D
Aromatic C16-C21	Aromatic C16-C21	0.70	J	1	0.40	1.66	mg/kg	FD049435.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0.96	J		0.52	2.33	mg/kg	
Total EPH	Total EPH	8.32	U		2.61	8.32	mg/kg	

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Lab Sample ID:	Q2126-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/11/25 18:39	PB168408

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.26	J	1	0.12	0.67	mg/kg	FD049435.D
Aromatic C12-C16	Aromatic C12-C16	0.39	J	1	0.23	1.00	mg/kg	FD049435.D
Aromatic C16-C21	Aromatic C16-C21	0.70	J	1	0.40	1.66	mg/kg	FD049435.D
Aromatic C21-C36	Aromatic C21-C36	1.39	J	1	1.19	2.66	mg/kg	FD049435.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	2.74	J		1.94	5.99	mg/kg	
Total EPH	Total EPH	2.74	J		1.94	5.99	mg/kg	

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Lab Sample ID:	Q2126-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
06/11/25 08:45	06/11/25 18:39	PB168408

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.31	J	1	0.14	1.00	mg/kg	FC069160.D
Aliphatic C12-C16	Aliphatic C12-C16	0.26	J	1	0.11	0.67	mg/kg	FC069160.D
Aliphatic C16-C21	Aliphatic C16-C21	0.40	J	1	0.13	1.00	mg/kg	FC069160.D
Aliphatic C21-C28	Aliphatic C21-C28	0.56	J	1	0.53	1.33	mg/kg	FC069160.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FC069160.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		2.09	5.99	mg/kg	

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Lab Sample ID:	Q2126-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069161.D	1	06/11/25	06/11/25	PB168408

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.68	J	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.54	J	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.83	J	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.13	J	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.56	J	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.6		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2126-01	Acq On:	11 Jun 2025 19:23
Client Sample ID:	LOD-MDL-SOIL-03-QT2-	Operator:	YP/AJ
Data file:	FC069161.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.605	1076675	10.184	300	ug/ml
Aliphatic C12-C16	6.606	10.010	833224	8.17	200	ug/ml
Aliphatic C16-C21	10.011	13.380	1223039	12.497	300	ug/ml
Aliphatic C21-C28	13.381	17.048	1591557	16.967	400	ug/ml
Aliphatic C28-C40	17.049	22.033	2206717	23.367	600	ug/ml
Aliphatic EPH	3.303	22.033	6931212	71.185		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.116	13.116	3916088	43.65		ug/ml
Aliphatic C9-C28	3.303	17.048	4724495	47.818	1200	ug/ml