

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	08/18/25	
Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	09/03/25 10:54	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.56	J	1	0.12	0.67	mg/kg	FF016317.D
Aromatic C12-C16	Aromatic C12-C16	0.91	J	1	0.23	1.00	mg/kg	FF016317.D
Aromatic C16-C21	Aromatic C16-C21	1.59	J	1	0.40	1.66	mg/kg	FF016317.D
Aromatic C21-C36	Aromatic C21-C36	2.75		1	1.19	2.66	mg/kg	FF016317.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.81	J		1.94	5.99	mg/kg	
Total EPH	Total EPH	5.81	J		1.94	5.99	mg/kg	

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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Client:	Alliance Technical Group, LLC - Newark		Date Collected:	08/18/25	
Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	08/28/25 15:12	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.32	J	1	0.12	0.67	mg/kg	FD049696.D
Aromatic C12-C16	Aromatic C12-C16	0.48	J	1	0.23	1.00	mg/kg	FD049696.D
Aromatic C16-C21	Aromatic C16-C21	0.86	J	1	0.40	1.66	mg/kg	FD049696.D
Aromatic C21-C36	Aromatic C21-C36	1.43	J	1	1.19	2.66	mg/kg	FD049696.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.08	J		1.94	5.99	mg/kg	
Total EPH	Total EPH	3.08	J		1.94	5.99	mg/kg	

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Client:	Alliance Technical Group, LLC - Newark		Date Collected:	08/18/25	
Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	08/28/25 15:12	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aromatic C10-C12	Aromatic C10-C12	0.32	J	1	0.12	0.67	mg/kg	FD049696.D
Aromatic C12-C16	Aromatic C12-C16	0.48	J	1	0.23	1.00	mg/kg	FD049696.D
Aromatic C16-C21	Aromatic C16-C21	0.86	J	1	0.40	1.66	mg/kg	FD049696.D
Aromatic C21-C36	Aromatic C21-C36	1.43	J	1	1.19	2.66	mg/kg	FD049696.D
Total AliphaticEPH	Total AliphaticEPH	0	U		0	0	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.08	J		1.94	5.99	mg/kg	
Total EPH	Total EPH	3.08	J		1.94	5.99	mg/kg	

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Client:	Alliance Technical Group, LLC - Newark		Date Collected:	08/18/25	
Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	09/09/25 12:35	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.54	J	1	0.14	1.00	mg/kg	FG016576.D
Aliphatic C12-C16	Aliphatic C12-C16	0.42	J	1	0.11	0.67	mg/kg	FG016576.D
Aliphatic C16-C21	Aliphatic C16-C21	0.69	J	1	0.13	1.00	mg/kg	FG016576.D
Aliphatic C21-C28	Aliphatic C21-C28	0.93	J	1	0.53	1.33	mg/kg	FG016576.D
Aliphatic C28-C40	Aliphatic C28-C40	1.60	J	1	1.18	2.00	mg/kg	FG016576.D
Total AliphaticEPH	Total AliphaticEPH	4.17	J		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	4.17	J		2.09	5.99	mg/kg	

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Client:	Alliance Technical Group, LLC - Newark		Date Collected:	08/18/25	
Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	09/09/25 11:06	PB169427

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	FF016355.D
Aliphatic C12-C16	Aliphatic C12-C16	0.27	J	1	0.11	0.67	mg/kg	FF016355.D
Aliphatic C16-C21	Aliphatic C16-C21	0.42	J	1	0.13	1.00	mg/kg	FF016355.D
Aliphatic C21-C28	Aliphatic C21-C28	0.56	J	1	0.53	1.33	mg/kg	FF016355.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FF016355.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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Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	09/09/25 11:06	PB169427

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	FF016355.D
Aliphatic C12-C16	Aliphatic C12-C16	0.27	J	1	0.11	0.67	mg/kg	FF016355.D
Aliphatic C16-C21	Aliphatic C16-C21	0.42	J	1	0.13	1.00	mg/kg	FF016355.D
Aliphatic C21-C28	Aliphatic C21-C28	0.56	J	1	0.53	1.33	mg/kg	FF016355.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FF016355.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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Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	09/09/25 11:06	PB169427

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	FF016355.D
Aliphatic C12-C16	Aliphatic C12-C16	0.27	J	1	0.11	0.67	mg/kg	FF016355.D
Aliphatic C16-C21	Aliphatic C16-C21	0.42	J	1	0.13	1.00	mg/kg	FF016355.D
Aliphatic C21-C28	Aliphatic C21-C28	0.56	J	1	0.53	1.33	mg/kg	FF016355.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FF016355.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:	Q2893-01		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
08/27/25 08:00	09/05/25 13:02	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.55	J	1	0.14	1.00	mg/kg	FE055685.D
Aliphatic C12-C16	Aliphatic C12-C16	0.46	J	1	0.11	0.67	mg/kg	FE055685.D
Aliphatic C16-C21	Aliphatic C16-C21	0.71	J	1	0.13	1.00	mg/kg	FE055685.D
Aliphatic C21-C28	Aliphatic C21-C28	0.99	J	1	0.53	1.33	mg/kg	FE055685.D
Aliphatic C28-C40	Aliphatic C28-C40	1.76	J	1	1.18	2.00	mg/kg	FE055685.D
Total AliphaticEPH	Total AliphaticEPH	4.47	J		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	4.47	J		2.09	5.99	mg/kg	

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Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	08/28/25 15:12	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.37	J	1	0.14	1.00	mg/kg	FC069770.D
Aliphatic C12-C16	Aliphatic C12-C16	0.31	J	1	0.11	0.67	mg/kg	FC069770.D
Aliphatic C16-C21	Aliphatic C16-C21	0.47	J	1	0.13	1.00	mg/kg	FC069770.D
Aliphatic C21-C28	Aliphatic C21-C28	0.64	J	1	0.53	1.33	mg/kg	FC069770.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FC069770.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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Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
08/27/25 08:00	08/28/25 15:12	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.37	J	1	0.14	1.00	mg/kg	FC069770.D
Aliphatic C12-C16	Aliphatic C12-C16	0.31	J	1	0.11	0.67	mg/kg	FC069770.D
Aliphatic C16-C21	Aliphatic C16-C21	0.47	J	1	0.13	1.00	mg/kg	FC069770.D
Aliphatic C21-C28	Aliphatic C21-C28	0.64	J	1	0.53	1.33	mg/kg	FC069770.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FC069770.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:	Q2893-01		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
08/27/25 08:00	08/28/25 15:12	PB169427

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
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Aliphatic C12-C16	Aliphatic C12-C16	0.31	J	1	0.11	0.67	mg/kg	FC069770.D
Aliphatic C16-C21	Aliphatic C16-C21	0.47	J	1	0.13	1.00	mg/kg	FC069770.D
Aliphatic C21-C28	Aliphatic C21-C28	0.64	J	1	0.53	1.33	mg/kg	FC069770.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.18	2.00	mg/kg	FC069770.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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Project:	LOD-LOQ-MDL Study		Date Received:	08/18/25	
Client Sample ID:	LOD-MDL-SOIL-01-QT3-2025		SDG No.:	Q2893	
Lab Sample ID:	Q2893-01		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
FC069771.D	1	08/27/25	08/28/25	PB169427

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.49	J	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.40	J	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.65	J	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.87	J	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.40	J	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.6		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2893-01	Acq On:	28 Aug 2025 15:55
Client Sample ID:	LOD-MDL-SOIL-01-QT3-	Operator:	YP/AJ
Data file:	FC069771.D	Misc:	4PPM SOIL LOD
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.295	6.591	931724	7.338	300	ug/ml
Aliphatic C12-C16	6.592	9.993	778681	6.067	200	ug/ml
Aliphatic C16-C21	9.994	13.361	1143623	9.712	300	ug/ml
Aliphatic C21-C28	13.362	17.027	1346810	13.123	400	ug/ml
Aliphatic C28-C40	17.028	21.995	1707885	20.97	600	ug/ml
Aliphatic EPH	3.295	21.995	5908723	57.21		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.098	13.098	4361496	45.58		ug/ml
Aliphatic C9-C28	3.295	17.027	4200838	36.24	1200	ug/ml