

Cover Page

Order ID : Q3301

Project ID : 19 Ashlynn Court

Client : Ronald Adams

Lab Sample Number

Q3301-01

Client Sample Number

SOIL

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Ronald Adams

Project Name: 19 Ashlynn Court

Project # N/A

Order ID # Q3301

Test Name: EPH, Gasoline Range Organics

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 10/06/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested:

. This data package contains results for EPH(NJEPH), Gasoline Range Organics(8015D).

C. Analytical Techniques:

EPH : The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

Gasoline Range Organics : The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909. The analysis of Gasoline Range Organics was based on method 8015D.

D. QA/ QC Samples:

The Holding Times were met for all analysis except following

EPH : The Holding Times were met for all analysis except for SOIL. As sample received late in Lab.

Gasoline Range Organics : The Holding Times were met for all analysis except for SOIL. As sample received late in Lab

The Surrogate recoveries were met for all analysis except following

EPH :

SOIL Aliphatic [1-chlorooctadecane (SURR) - 191%],

SOIL Aromatic [2-Bromonaphthalene (SURR) - 190%, 2-Fluorobiphenyl (SURR) - 144%],

SOILDL Aliphatic [1-chlorooctadecane (SURR) - 164%],

SOILDL Aromatic [2-Bromonaphthalene (SURR) - 181% , 2-Fluorobiphenyl (SURR) - 150%],

SOILDL2 Aliphatic [1-chlorooctadecane (SURR) - 164%],

SOILDL2 Aromatic [2-Bromonaphthalene (SURR) - 360% , 2-Fluorobiphenyl (SURR) - 478%, ortho-Terphenyl (SURR) - 258%],
but this sample was required further dilution as well due to high concentration,
therefore original and Dilution analysis were reported and no further corrective action
taken.

SOILMS Aromatic [2-Bromonaphthalene (SURR) - 184%],
SOILMSD Aromatic [2-Bromonaphthalene (SURR) - 180% , 2-Fluorobiphenyl (SURR) - 144%], MSMSD confirm with its original sample.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds except following
EPH : The MS {Q3301-01MS} with File ID: FC069965.D recoveries met the
requirements for all compounds except for Aliphatic [n-Hexadecane (C16)- 19%], [n-
Octadecane (C18) - 13%], [n-Hexatriacontane (C36) - 148%], [n-Octatriacontane (C38) -
149%] due to matrix interference. & for [Naphthalene (C11.7)- 24%, 2-
methylnaphthalene (C12.89)- 250%], these analytes are only being monitoring in
aliphatic fraction.

The MS {Q3301-01MS} with File ID: FD049834.D recoveries met the requirements for
all compounds except for Aromatic [Acenaphthylene (C15.06) - 143%], [Acenaphthene
(C15.5) - 285%], Fluorene (C16.55) - 148%], [Anthracene (C19.43) - 497%], [Pyrene
(C20.8) - 178%], [Fluoranthene (C21.85) - 186%], [Benzo[a]anthracene (C26.37) -
205%], [Chrysene (C27.41) - 414%], [Bnezo[k]fluoranthene (C30.14) -
410%],[Dibenz[a,h]anthracene (C30.36) - 381%], [benzo[b]fluoranthene (C30.41) -
197%], [Benzo[a]pyrene (C31.34) - 191%], [Benzo[g,h,i]perylene (C34.01) - 190%],
[Indeno[1,2,3-cd]pyrene (C35.01) - 216%] due to matrix interference.

The MSD recoveries met the requirements for all compounds except following
EPH : The MSD {Q3301-01MSD} with File ID: FC069966.D recoveries met the
requirements for all compounds except for Aliphatic [n-Decane (C10)- 146%], [n-
Tetradecane (C14)- 155%], [n-Octadecane (C18) - 479%], [n-Octatriacontane (C38) -
150%], [n-Tetracontane (C40) - 142%] due to matrix interference. & for [Naphthalene
(C11.7)- 39%, 2-methylnaphthalene (C12.89)- 519%], these analytes are only being
monitoring in aliphatic fraction.

The MSD {Q3301-01MSD} with File ID: FD049835.D recoveries met the requirements
for all compounds except for Aromatic [Acenaphthene (C15.5) - 282%], Fluorene
(C16.55) - 142%], [Anthracene (C19.43) - 494%], [Pyrene (C20.8) - 177%],
[Fluoranthene (C21.85) - 181%], [Benzo[a]anthracene (C26.37) - 202%], [Chrysene
(C27.41) - 409%], [Bnezo[k]fluoranthene (C30.14) - 408%],[Dibenz[a,h]anthracene
(C30.36) - 380%], [benzo[b]fluoranthene (C30.41) - 195%], [Benzo[a]pyrene (C31.34) -
190%], [Benzo[g,h,i]perylene (C34.01) - 189%], [Indeno[1,2,3-cd]pyrene (C35.01) -
213%] due to matrix interference.



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The RPD were met for all analysis except following
EPH : The RPD for {Q3301-01MSD} with File ID: FC069966.D met criteria except for Aliphatic [2-methylnaphthalene (C12.89) - 69.96%], [n-Hexadecane (C16) - 142.42%], [n-Octadecane (C18) - 189.43%], [n-Eicosane (C20) - 71.35%] due to difference in MSMSD concentrations.

The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

Gasoline Range Organics : Samples SOIL was diluted due to bad matrix.

EPH : Sample SOIL,SOILDL were diluted due to high concentration for Aliphatic and Aromatic compounds.

E. Additional Comments:

The soil samples results are based on a dry weight basis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3301

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/16/2025