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Cover Page

Order ID : Q1572

Project ID : R36884 - PCB

Client : Tetra Tech, EMI

Lab Sample Number	Client Sample Number
Q1572-01	C0AC9
Q1572-02	C0O14
Q1572-03	C0O15
Q1572-04	C0O16
Q1572-05	C0O17
Q1572-06	C0O18
Q1572-07	C0O19
Q1572-08	C0O20
Q1572-09	C0O21
Q1572-10	C0O22
Q1572-11	C0O23
Q1572-12	C0O24
Q1572-13	C0O25
Q1572-14	C0O26
Q1572-15	C0O27
Q1572-16	C0O28

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: 3/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech, EMI
Project Name: R36884 - PCB
Project # N/A
Chemtech Project # Q1572
Test Name: PCB Group1

A. Number of Samples and Date of Receipt:
16 Solid samples were received on 03/14/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: PCB Group1. This data package contains results for PCB Group1.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCB Group1s was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
C0AC9 [Decachlorobiphenyl(2) - 250%], C0AC9DL [Decachlorobiphenyl(2) - 347%], C0O16 [Decachlorobiphenyl(2) - 229%], C0O16DL [Decachlorobiphenyl(2) - 270%], C0O17 [Decachlorobiphenyl(2) - 295%], C0O17DL [Decachlorobiphenyl(2) - 483%], C0O18DL [Decachlorobiphenyl(2) - 178%],C0O20 [Decachlorobiphenyl(2) - 232%], C0O20DL [Decachlorobiphenyl(2) - 311%],AS per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken while for,

Samples C0O14DL [Decachlorobiphenyl(2) - 232%, Tetrachloro-m-xylene(1) - 150%, Tetrachloro-m-xylene(2) - 167%],
C0O15DL2 [Decachlorobiphenyl(2) - 190%, Tetrachloro-m-xylene(2) - 159%], C0O22 [Decachlorobiphenyl(1) - 1865%, Decachlorobiphenyl(2) - 1454%],
C0O23 [Decachlorobiphenyl(1) - 222%, Decachlorobiphenyl(2) - 211%], C0O23DL [Decachlorobiphenyl(1) - 262%, Decachlorobiphenyl(2) - 272%],
C0O24 [Decachlorobiphenyl(1) - 249%, Decachlorobiphenyl(2) - 349%], these samples required dilution as well due to high concentration therefore samples were reanalyzed with dilution and reported while for,

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Samples C0AC9DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O14DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O16DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O17DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O18DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O21DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O22DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O24DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
C0O24DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0% and Tetrachloro-m-xylene(2) - 0%] surrogates were diluted out due to high dilution, no further corrective action was taken.

The Retention Times were acceptable for all samples.
The MS {Q1572-06MS} with File ID: PP070564.D recoveries met the requirements for all compounds except for AR1016[7313%], AR1260[169%] due to sample matrix interference.

The MSD {Q1572-06MSD} with File ID: PP070565.D recoveries met the acceptable requirements except for AR1016[7777%], AR1260[215%] due to sample matrix interference.

The RPD for {Q1572-06MSD} with File ID: PP070565.D met criteria except for AR1260[24%] due to difference in results of MS-MSD.

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID PO109890.D met the requirements except for Decachlorobiphenyl is failing in 2nd column,
The Continuous Calibration File ID PO109904.D met the requirements except for Decachlorobiphenyl is failing in 1st column,
The Continuous Calibration File ID PO109923.D met the requirements except for Decachlorobiphenyl is failing in 2nd column,

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above mentioned CCAL failing in one column but another column passing for that therefore no corrective action taken.

Samples C0AC9, C0AC9DL, C0O14, C0O14DL, C0O15, C0O15DL, C0O16, C0O16DL, C0O17, C0O17DL, C0O18, C0O18DL, C0O19, C0O20, C0O21, C0O22, C0O23, C0O24 and C0O24DL were diluted due to high concentrations.

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_____

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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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1572**

	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 Castody	✓
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: **MOHAMMAD AHMED** **Date:** **03/27/2025**