

Cover Page

Order ID : Q1860

Project ID : RFP 911

Client : Weston Solutions, Inc.

Lab Sample Number

Q1860-01
Q1860-02
Q1860-03
Q1860-04
Q1860-05
Q1860-06
Q1860-07
Q1860-08
Q1860-09
Q1860-10
Q1860-11
Q1860-12
Q1860-13
Q1860-14
Q1860-15
Q1860-16
Q1860-17
Q1860-18
Q1860-19
Q1860-20
Q1860-21
Q1860-22
Q1860-23
Q1860-24
Q1860-25
Q1860-26
Q1860-27
Q1860-28
Q1860-29

Client Sample Number

P001-SS001-01
Q1860-01MS
Q1860-01MSD
P001-SS002-01
P001-SS002-02
P001-SS003-01
P001-SS004-01
P001-SS005-01
P001-SS006-01
P001-SS007-01
P001-SS008-01
P001-SS009-01
P001-SS010-01
P001-SS011-01
P001-SS012-01
P001-SS013-01
P001-SS014-01
P001-SS015-01
P001-SS016-01
Q1860-19MS
Q1860-19MSD
P001-SS017-01
P001-SS017-02
P001-SS018-01
P001-SS019-01
P001-SS020-01
P001-SS021-01
P001-SS022-01
P001-SS023-01

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: 5/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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Order ID : Q1860

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Lab Sample Number

Q1860-30
Q1860-31
Q1860-32
Q1860-33
Q1860-34
Q1860-35
Q1860-36
Q1860-37
Q1860-38
Q1860-39
Q1860-40
Q1860-41
Q1860-42

Client Sample Number

P001-SS024-01
P001-SS025-01
P001-SS026-01
P001-SS027-01
P001-SS028-01
P001-SS029-01
P001-SS030-01
P001-SS031-01
P001-SS032-01
P001-SS033-01
P001-SS034-01
P001-SS035-01
P001-SS036-01

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Date: 5/6/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 911

Project # N/A

Chemtech Project # Q1860

Test Name: PCB

A. Number of Samples and Date of Receipt:

42 Solid samples were received on 04/23/2025.

B. Parameters

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

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 PCBs 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

P001-SS007-01 [Decachlorobiphenyl(2) - 215%],

P001-SS007-01DL [Decachlorobiphenyl(1) - 178%],

P001-SS013-01DL [Decachlorobiphenyl(2) - 194%],

P001-SS021-01DL [Decachlorobiphenyl(2) - 192%] as per method one surrogate is allowed to failed, therefore no corrective action was taken and

P001-SS009-01 [Decachlorobiphenyl(1) - 248%, Decachlorobiphenyl(2) - 227%],

P001-SS012-01 [Decachlorobiphenyl(1) - 219%, Decachlorobiphenyl(2) - 202%],

P001-SS012-01DL [Decachlorobiphenyl(1) - 219%, Decachlorobiphenyl(2) - 238%],

P001-SS021-01 [Decachlorobiphenyl(1) - 187%, Decachlorobiphenyl(2) - 193%],

P001-SS025-01 [Decachlorobiphenyl(1) - 250%, Decachlorobiphenyl(2) - 222%],

P001-SS026-01 [Decachlorobiphenyl(1) - 373%, Decachlorobiphenyl(2) - 332%],

P001-SS028-01 [Decachlorobiphenyl(1) - 423%, Decachlorobiphenyl(2) - 358%],

P001-SS035-01 [Decachlorobiphenyl(1) - 179%, Decachlorobiphenyl(2) - 181%],

P001-SS025-01DL [Decachlorobiphenyl(1) - 225%, Decachlorobiphenyl(2) - 240%],

P001-SS026-01DL [Decachlorobiphenyl(1) - 380%, Decachlorobiphenyl(2) - 418%],

P001-SS033-01DL [Decachlorobiphenyl(1) - 181%, Decachlorobiphenyl(2) - 180%],

P001-SS034-01DL [Decachlorobiphenyl(1) - 188%, Decachlorobiphenyl(2) - 254%],
P001-SS035-01DL [Decachlorobiphenyl(1) - 196%, Decachlorobiphenyl(2) - 229%],
P001-SS031-01DL [Decachlorobiphenyl(1) - 247%, Decachlorobiphenyl(2) - 283%],
P001-SS028-01DL [Decachlorobiphenyl(1) - 415%, Decachlorobiphenyl(2) - 434%],
P001-SS008-01 [Decachlorobiphenyl(1) - 204%, Decachlorobiphenyl(2) - 407%,
Tetrachloro-m-xylene(1) - 184%],
P001-SS029-01 [Tetrachloro-m-xylene(1) - 149%, Tetrachloro-m-xylene(2) - 151%],
but these samples were required further dilution as well due to high concentration,
therefore original and Dilution analysis were reported and no further corrective action
taken also
P001-SS009-01DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%,
Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
P001-SS032-01DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%,
Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
P001-SS035-01DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%,
Tetrachloro-m-xylene(1) - 0% and Tetrachloro-m-xylene(2) - 0%],
P001-SS031-01DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%,
Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
P001-SS008-01DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%,
Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
Surrogates were diluted out due to the high dilution. No further corrective action was
taken.

The Retention Times were acceptable for all samples.

The MS {Q1860-20MS} with File ID: PO110728.D recoveries met the requirements for
all compounds except for AR1016[649%], AR1260[316%] due to matrix interference.

The MSD {Q1860-21MSD} with File ID: PO110729.D recoveries met the acceptable
requirements except for AR1016[698%], AR1260[321%] due to matrix interference.

The RPD met criteria .

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 PO110750.D met the requirements except for
Aroclor-1016(Peak-02),Tetrachloro-m-xylene is failing in 1st column but passing but
passing in 2nd column therefore no corrective action taken.

The Continuous Calibration File ID PO110783.D met the requirements except for
Tetrachloro-m-xylene is failing in 1st column but passing but passing in 2nd column
therefore no corrective action taken.

Samples P001-SS006-01, P001-SS007-01, P001-SS008-01, P001-SS009-01, P001-SS012-01, P001-SS013-01, P001-SS016-01, P001-SS017-01, P001-SS017-02, P001-SS019-01, P001-SS020-01, P001-SS021-01, P001-SS023-01, P001-SS025-01, P001-SS026-01, P001-SS028-01, P001-SS029-01, P001-SS030-01, P001-SS031-01, P001-SS031-01DL, P001-SS032-01, P001-SS032-01DL, P001-SS033-01, P001-SS034-01, P001-SS035-01 and P001-SS035-01DL were diluted due to high concentrations.

E. Additional Comments:

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

F. Calculation for Concentration in Soil samples:

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)}$$

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vt = Volume of the concentrated extract in uL

Vi = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

Ws = Weight of sample extracted (g).

D = % dry weight or $\frac{100 - \% \text{Moisture}}{100}$

GPC = $\frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

DF = Dilution Factor

G. Manual Integration Comments:

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

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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 #: Q1860

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: 05/06/2025