**Site:** Paerdegat Basin Study, Fish and Crab Tissue
**Laboratory:** Test America, South Burlington, VT
**Report Nos.:** 200-35756 and 200-35801
**Reviewer:** Lorie MacKinnon/GEI Consultants
**Date:** January 17, 2017

## Samples Reviewed and Evaluation Summary

| FIELD ID | LAB ID | FRACTIONS VALIDATED |
|---|---|---|
| NG-PB-TS-MS-KF01 | 200-35756-01 | PCBs, Lipids |
| NG-PB-TS-HOB2-KF01 | 200-35756-02 | PCBs, Lipids |
| NG-PB-TS-CP1-KF01 | 200-35756-03 | PCBs, Lipids |
| NG-PB-TS-CP2-KF01 | 200-35756-04 | PCBs, Lipids |
| NG-PB-TS-HR2-KF01 | 200-35756-05 | PCBs, Lipids |
| NG-PB-TS-HOB3-KF01 | 200-35756-06 | PCBs, Lipids |
| NG-PB-TS-KC-KF01 | 200-35756-07 | PCBs, Lipids |
| NG-PB-TS-HOB1-KF01 | 200-35756-08 | PCBs, Lipids |
| EBLK01 | 200-35756-09 | PCBs |
| NG-PB-TS-HR2-SB01 | 200-35801-01 | PCBs, Lipids |
| NG-PB-TS-TR2-BF01 | 200-35801-02 | PCBs, Lipids |
| NG-PB-TS-TR2-BF02 | 200-35801-03 | PCBs, Lipids |
| NG-PB-TS-TR2-BF03 | 200-35801-04 | PCBs, Lipids |
| NG-PB-TS-TR2-BF04 | 200-35801-05 | PCBs, Lipids |
| NG-PB-TS-HOB1-AE01 | 200-35801-06 | PCBs, Lipids |
| NG-PB-TS-HR1-KF01 | 200-35801-07 | PCBs, Lipids |
| NG-PB-TS-MS-BC01 | 200-35801-08 | PCBs, Lipids |
| NG-PB-TS-MS-BC02 | 200-35801-09 | PCBs, Lipids |
| NG-PB-TS-MS-BC03 | 200-35801-10 | PCBs, Lipids |
| NG-PB-TS-HR2-AE01 | 200-35801-11 | PCBs, Lipids |
| NG-PB-TS-TR2-BC01 | 200-35801-12 | PCBs, Lipids |
| NG-PB-TS-MS-AE01 | 200-35801-13 | PCBs, Lipids |
| NG-PB-TS-MS-BC04 | 200-35801-14 | PCBs, Lipids |
| NG-PB-TS-MS-BC01H | 200-35801-15 | PCBs, Lipids |
| NG-PB-TS-MS-BC02H | 200-35801-16 | PCBs, Lipids |
| NG-PB-TS-MS-BC04H | 200-35801-17 | PCBs, Lipids |
| NG-PB-TS-MS-BC03(COMP) | 200-35801-18 | PCBs, Lipids |

Associated QC Samples(s): Field/Trip Blanks: EBLK01
Field Duplicate pair: None associated

The above-listed fish and crab tissue samples and equipment blank sample were collected on October 12, 13, 14, 15, 17, and 18, 2017 and were analyzed for polychlorinated biphenyls (PCBs) by SW-846 method 8082A and percent lipids. The data validation was performed based on the USEPA Region 2 Standard Operating Procedure (SOP) HW-37 (Revision 3) *Polychlorinated Biphenyl (PCB) Aroclor Data Validation* (May 2013), modified for the SW-846 methodology utilized.

The data were evaluated based on the following parameters:

- Data Completeness
- Holding Times and Sample Preservation
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) and Duplicate Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

In general, the data appear usable as reported or usable with minor qualification due to sample matrix or laboratory quality control outliers. However, the following issues were noted which may have a significant impact on the data usability:

- The nondetect results for all Aroclors in sample EBLK01 were rejected due to surrogate recoveries less than 10. The nondetect Aroclor results in sample EBLK01 should not be used for decision-making purposes.

The validation findings were based on the following information.

## Data Completeness

The data packages were complete as received with the following exception: the chains of custody were missing from report 200-35801. The information was requested and the revised package was received for review.

## Holding Times and Sample Preservation

All criteria were met.

## Initial and Continuing Calibrations

Compounds that did not meet criteria in the PCB calibrations are summarized in the following table.

| Instrument/ Calibration Standard | Compound | Calibration Exceedance (%D ) | Validation Qualifier |
|---|---|---|---|
| CH5253: CCAL 12/29/16 14:33 | Aroclor 1232 | Due to internal standard spiked at wrong level, this calibration standard could not be evaluated. | Estimate (J/UJ) the positive and nondetect results for Aroclor 1232 and Aroclor 1262 in the associated samples. |
| | Aroclor 1262 | | |
| Associated Samples: NG-PB-TS-HR2-SB01, NG-PB-TS-TR2-BF01, NG-PB-TS-TR2-BF02, NG-PB-TS-HOB1-AE01, NG-PB-TS-HR1-KF01, NG-PB-TS-MS-BC01, NG-PB-TS-MS-BC02, NG-PB-TS-MS-BC03, NG-PB-TS-HR2-AE01, NG-PB-TS-MS-AE01 | | | |

X = Initial calibration (IC) relative standard deviation (%RSD) > 20 for; estimate (J) positive and blank-qualified (UJ) results only.

XX = Continuing calibration (CC) percent difference (%D) > 20 for PCBs; estimate (J/UJ) positive and nondetect results.

The direction of the bias cannot be determined for the calibration nonconformances. The results can be used for project objectives as nondetects with estimated (UJ) quantitation limits which may have a minor impact on the data usability.

## Blanks

Contamination was not detected in the associated method blank samples and equipment blank sample.

## Surrogate Recoveries

The following table lists the surrogate recoveries outside of the control limits and the resulting validation actions.

| | Surrogate Recoveries (%) | | | | |
|---|---|---|---|---|---|
| Sample | TCX1 | TCX2 | DCB1 | DCB2 | Validation Actions |
| NG-PB-TS-CP1-KF01 | - | - | 44 | - | Estimate (J/UJ) the positive and nondetect results for all Aroclors in these samples; Low bias. |
| NG-PB-TS-HR2-KF01 | - | - | 44 | - | |
| NG-PB-TS-HOB3-KF01 | - | - | 42 | - | |
| NG-PB-TS-HOB1-KF01 | - | - | 36 | 39 | |
| NG-PB-TS-HR2-SB01 | 27 | 26 | 31 | 31 | |
| NG-PB-TS-TR2-BF01 | - | - | 37 | 39 | |
| NG-PB-TS-TR2-BF02 | - | - | 40 | 41 | |

| | Surrogate Recoveries (%) | | | | |
|---|---|---|---|---|---|
| **Sample** | **TCX1** | **TCX2** | **DCB1** | **DCB2** | **Validation Actions** |
| NG-PB-TS-TR2-BF03 | - | - | 44 | - | Estimate (J/UJ) the positive and nondetect results for all Aroclors in these samples; Low bias. |
| NG-PB-TS-TR2-BF04 | - | - | 39 | 43 | |
| NG-PB-TS-HOB1-AE01 | - | - | 43 | 44 | |
| NG-PB-TS-HR1-KF01 | - | - | 42 | 44 | |
| NG-PB-TS-MS-BCO1 | - | - | 40 | 40 | |
| NG-PB-TS-MS-BC03 | - | - | 43 | 44 | |
| NG-PB-TS-HR2-AE01 | - | - | 35 | 37 | |
| NG-PB-TS-TR2-BC01 | 19 | 21 | 19 | 21 | |
| NG-PB-TS-MS-AE01 | - | - | 40 | 42 | |
| NG-PB-TS-MS-BC04 | - | - | 36 | 39 | |
| NG-PB-TS-MS-BC01H | - | - | 41 | - | |
| NG-PB-TS-MS-BC02H | - | - | 36 | 39 | |
| NG-PB-TS-MS-BC04H | - | - | 39 | 41 | |
| EBLK01 | 1 | 2 | 3 | 3 | Reject (R) the nondetect results for all Aroclors in this sample. |
| Control Limits: TCX 30-130%, DCB 45-125% | | | | | |

## MS/MSD and Duplicate Results

A duplicate was performed on sample NG-PB-TS-CP2-KF01 for lipids. All criteria were met.

MS/MSD analyses were performed on samples NG-PB-TS-HOB1-AE01 and NG-PB-TS-CP2-KF01 for PCBs. The following tables list the analytes recovered outside of control limits MS and/or MSD analyses and the resulting actions.

| NG-PB-TS-HOB1-AE01 | | | | | |
|---|---|---|---|---|---|
| **Analyte** | **MS (%)** | **MSD (%)** | **RPD (%)** | **Control Limits** | **Validation Action/Bias** |
| Aroclor 1260 | - | 54 | - | 55-125 | Estimate (J) the positive result for Aroclor 1260 in sample NG-PB-TS-HOB1-AE01; Low bias. |
| - Criteria met | | | | | |

| NG-PB-TS-CP2-KF01 | | | | | |
|---|---|---|---|---|---|
| **Analyte** | **MS (%)** | **MSD (%)** | **RPD (%)** | **Control Limits** | **Validation Action/Bias** |
| Aroclor 1016 | 49 | - | 32 | 55-120/30 | Estimate (J/UJ) the positive and nondetect results for all Aroclors in sample NG-PB-TS-CP2-KF01 as both spiked compounds recovered below control limits; Low bias. |
| Aroclor 1260 | 43 | 52 | - | 55-125/30 | |
| - Criteria met | | | | | |

## LCS Results

The following table lists the compounds recovered outside of control limits in the LCS analyses and the resulting actions.

| Compound | Recovery (%) | Control Limits (%) | LCS ID: Associated Samples | Validation Actions |
|---|---|---|---|---|
| Aroclor 1016 | 25 | 55-120 | LCS 200-111881: NG-PB-TS-BC01H, NG-PB-TS-MS-BC02H, NG-PB-TS-MS-BC04H, NG-PB-TS-MS-BC03 (COMP) | Estimate (J/UJ) the positive and nondetect results for all Aroclors, as both LCS spike compounds recovered low, in the associated samples; Low bias. |
| Aroclor 1260 | 46 | 55-125 | | |

## Internal Standards

All criteria were met.

## Quantitation Limits and Data Assessment

Results were reported which were below the reporting limit (RL) and above the method detection limit (MDL). These results were qualified as estimated (J) by the laboratory.

The following table lists the sample dilutions which were performed and the results to be reported.

| Sample | PCB Analysis Reported |
|---|---|
| NG-PB-TS-HOB2-KF01 | Due to matrix, the sample was analyzed at a 2-fold dilution. QLs are elevated accordingly. |

## Sample Quantitation and Compound Identification

Calculations were spot-checked. Upon review of the Aroclor compound identification form 10's, it was found that the second column confirmation for Aroclor 1260 in sample NG-PB-TS-MS-BC02 contained only two Aroclor 1260 peaks, the requirement being three for Aroclor identification. The result for Aroclor 1260 in sample NG-PB-TS-MS-BC02, which was below the reporting limit, was changed to nondetect at the reporting limit by the validator due to lack of second column confirmation in this sample.

Select Aroclors have overlapping quantitation peaks and thus the potential for double counting of these peaks exists when multiple Aroclors are present in the sample. The following tables lists the multiple Aroclors detected in the samples which were qualified as estimated (J) as a result of this potential high bias due to possible double counting of the peaks.

| Sample | Multiple Aroclors Detected |
|---|---|
| NG-PB-TS-MS-KF01 | Aroclor 1248, Aroclor 1254, and Aroclor 1260 |
| NG-PB-TS-HOB2-KF01 | Aroclor 1248, Aroclor 1254, and Aroclor 1260 |
| NG-PB-TS-CP1-KF01 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-CP2-KF01 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-HR2-KF01 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-HOB3-KF01 | Aroclor 1248, Aroclor 1254, and Aroclor 1260 |
| NG-PB-TS-KC-KF01 | Aroclor 1248, Aroclor 1254, and Aroclor 1260 |
| NG-PB-TS-HOB1-KF01 | Aroclor 1248, Aroclor 1254, and Aroclor 1260 |
| NG-PB-TS-HR2-SB01 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-TR2-BF01 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-TR2-BF02 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-TR2-BF03 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-TR2-BF04 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-HOB1-AE01 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-HR1-KF01 | Aroclor 1248, Aroclor 1254, and Aroclor 1260 |
| NG-PB-TS-MS-AE01 | Aroclor 1254 and Aroclor 1260 |
| NG-PB-TS-HR2-AE01 | Aroclor 1254 and Aroclor 1260 |

The following table lists the GC dual column RPDs which were outside of control limits and the resulting actions. The direction of the bias cannot be determined from this nonconformance. All results are usable as estimated values.

| Sample | Compound | RPD (%) | Validation Actions |
|---|---|---|---|
| NG-PB-TS-MS-KF01 | Aroclor 1254 | 61.3 | Estimate (J) the positive results for the affected Aroclors in the associated samples. |
| NG-PB-TS-HOB2-KF01 | Aroclor 1254 | 77.6 | |
| NG-PB-TS-CP1-KF01 | Aroclor 1254 | 28.1 | |
| NG-PB-TS-CP2-KF01 | Aroclor 1254 | 38.2 | |
| | Aroclor 1260 | 25.4 | |
| NG-PB-TS-HR2-KF01 | Aroclor 1254 | 47.4 | |
| NG-PB-TS-HOB3-KF01 | Aroclor 1248 | 27.7 | |
| | Aroclor 1254 | 57.6 | |
| NG-PB-TS-KC-KF01 | Aroclor 1248 | 28.4 | |
| | Aroclor 1254 | 50.0 | |
| NG-PB-TS-HOB1-KF01 | Aroclor 1248 | 25.8 | |
| | Aroclor 1254 | 50.4 | |
| NG-PB-TS-HR2-SB01 | Aroclor 1254 | 40.6 | |
| NG-PB-TS-TR2-BF02 | Aroclor 1254 | 26.2 | |
| NG-PB-TS-TR2-BF04 | Aroclor 1254 | 41.0 | |
| NG-PB-TS-HOB1-AE01 | Aroclor 1254 | 49.5 | |
| NG-PB-TS-HR1-KF01 | Aroclor 1254 | 28.6 | |
| NG-PB-TS-HR2-AE01 | Aroclor 1254 | 43.0 | |
| NG-PB-TS-MS-AE01 | Aroclor 1254 | 64.1 | |
| NG-PB-TS-MS-BC02H | Aroclor 1260 | 25.1 | |
| NG-PB-TS-MS-BC04 | Aroclor 1260 | 61.6 | Result is less than the RL. Qualify the result for Aroclor 1260 as nondetect (U) at the RL in sample NG-PB-TS-MS-BC04. |

For %RPD between 26 and 200%; estimate (J/JN) the positive result using professional judgment.
For %RPD >50% and the result < RL; raise the value to the RL and qualify as nondetect (U).
For %RPD between 101 and 200 with interference present; qualify the result as presumptively present (JN).
For %RPD > 200%; reject (R) result**.**

# DATA VALIDATION QUALIFIERS

U - The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.

J - Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.

UJ - The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.

JN - The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.

R - Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

## Client Sample ID: NG-PB-TS-MS-KF01

Date Collected: 10/12/16 15:15
Date Received: 10/15/16 09:30

**Lab Sample ID: 200-35756-1**
**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 51 | U | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| PCB-1221 | 51 | U | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| PCB-1232 | 51 | U | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| PCB-1242 | 51 | U | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| **PCB-1248** | **480** | J | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| **PCB-1254** | **250** | ~~P~~ J | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| **PCB-1260** | **91** | J | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| PCB-1262 | 51 | U | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |
| PCB-1268 | 51 | U | 51 | 3.3 | ug/Kg | | 12/13/16 10:42 | 12/19/16 14:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *87* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 14:41* | *1* |
| *Tetrachloro-m-xylene* | *76* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 14:41* | *1* |
| *DCB Decachlorobiphenyl* | *61* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 14:41* | *1* |
| *DCB Decachlorobiphenyl* | *63* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 14:41* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 2.9 | | 0.25 | 0.25 | % | | 12/13/16 10:42 | 12/14/16 09:52 | 1 |

## Client Sample ID: NG-PB-TS-HOB2-KF01

Date Collected: 10/13/16 11:25
Date Received: 10/15/16 09:30

**Lab Sample ID: 200-35756-2**
**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 95 | U | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| PCB-1221 | 95 | U | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| PCB-1232 | 95 | U | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| PCB-1242 | 95 | U | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| **PCB-1248** | **880** | J | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| **PCB-1254** | **440** | ~~P~~ J | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| **PCB-1260** | **140** | J | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| PCB-1262 | 95 | U | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |
| PCB-1268 | 95 | U | 95 | 6.2 | ug/Kg | | 12/13/16 10:42 | 01/03/17 11:25 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *65* | | *30 - 130* | *12/13/16 10:42* | *01/03/17 11:25* | *2* |
| *Tetrachloro-m-xylene* | *66* | | *30 - 130* | *12/13/16 10:42* | *01/03/17 11:25* | *2* |
| *DCB Decachlorobiphenyl* | *56* | | *45 - 125* | *12/13/16 10:42* | *01/03/17 11:25* | *2* |
| *DCB Decachlorobiphenyl* | *59* | | *45 - 125* | *12/13/16 10:42* | *01/03/17 11:25* | *2* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 1.3 | | 0.23 | 0.23 | % | | 12/13/16 10:42 | 12/14/16 09:52 | 1 |



dam 1/17/17

# Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Paerdegat Basin - Fish & Crab Tissue

TestAmerica Job ID: 200-35756-1
SDG: 200-35756-1

## Client Sample ID: NG-PB-TS-CP1-KF01

**Date Collected: 10/12/16 16:25**
**Date Received: 10/15/16 09:30**

**Lab Sample ID: 200-35756-3**
**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 47 | U J | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| PCB-1221 | 47 | U | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| PCB-1232 | 47 | U | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| PCB-1242 | 47 | U | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| PCB-1248 | 47 | U J | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| **PCB-1254** | **32** | J | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| **PCB-1260** | **32** | J | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| PCB-1262 | 47 | U J | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |
| PCB-1268 | 47 | U J | 47 | 3.0 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *62* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 15:14* | *1* |
| *Tetrachloro-m-xylene* | *58* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 15:14* | *1* |
| *DCB Decachlorobiphenyl* | *44* | *X* | *45 - 125* | *12/13/16 10:42* | *12/19/16 15:14* | *1* |
| *DCB Decachlorobiphenyl* | *47* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 15:14* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 2.3 | | 0.23 | 0.23 | % | | 12/13/16 10:42 | 12/14/16 09:52 | 1 |

## Client Sample ID: NG-PB-TS-CP2-KF01

**Date Collected: 10/12/16 16:45**
**Date Received: 10/15/16 09:30**

**Lab Sample ID: 200-35756-4**
**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 52 | ~~U F1 F2~~ U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| PCB-1221 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| PCB-1232 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| PCB-1242 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| PCB-1248 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| **PCB-1254** | **49** | J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| **PCB-1260** | **49** | ~~J F1~~ | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| PCB-1262 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |
| PCB-1268 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 15:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *67* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 15:30* | *1* |
| *Tetrachloro-m-xylene* | *64* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 15:30* | *1* |
| *DCB Decachlorobiphenyl* | *51* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 15:30* | *1* |
| *DCB Decachlorobiphenyl* | *54* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 15:30* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 2.3 | | 0.26 | 0.26 | % | | 12/13/16 10:42 | 12/14/16 09:52 | 1 |

# Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Paerdegat Basin - Fish & Crab Tissue

TestAmerica Job ID: 200-35756-1
SDG: 200-35756-1

## Client Sample ID: NG-PB-TS-HR2-KF01

**Lab Sample ID: 200-35756-5**

**Date Collected: 10/13/16 15:45**
**Date Received: 10/15/16 09:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| PCB-1221 | 52 | U | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| PCB-1232 | 52 | U | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| PCB-1242 | 52 | U | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| PCB-1248 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| **PCB-1254** | **47** | J p | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| **PCB-1260** | **36** | J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| PCB-1262 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |
| PCB-1268 | 52 | U J | 52 | 3.4 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *63* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 16:36* | *1* |
| *Tetrachloro-m-xylene* | *59* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 16:36* | *1* |
| *DCB Decachlorobiphenyl* | *44* | *X* | *45 - 125* | *12/13/16 10:42* | *12/19/16 16:36* | *1* |
| *DCB Decachlorobiphenyl* | *48* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 16:36* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 2.6 | | 0.26 | 0.26 | % | | 12/13/16 10:42 | 12/14/16 09:52 | 1 |

## Client Sample ID: NG-PB-TS-HOB3-KF01

**Lab Sample ID: 200-35756-6**

**Date Collected: 10/13/16 12:25**
**Date Received: 10/15/16 09:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| PCB-1242 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| **PCB-1248** | **90** | J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| **PCB-1254** | **56** | p J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| **PCB-1260** | **34** | J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/14/16 17:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *61* | | *30 - 130* | *11/08/16 10:28* | *11/14/16 17:31* | *1* |
| *Tetrachloro-m-xylene* | *61* | | *30 - 130* | *11/08/16 10:28* | *11/14/16 17:31* | *1* |
| *DCB Decachlorobiphenyl* | *42* | *X* | *45 - 125* | *11/08/16 10:28* | *11/14/16 17:31* | *1* |
| *DCB Decachlorobiphenyl* | *48* | | *45 - 125* | *11/08/16 10:28* | *11/14/16 17:31* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 1.4 | | 0.077 | 0.077 | % | | 11/09/16 09:11 | 11/09/16 10:21 | 1 |

# Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Paerdegat Basin - Fish & Crab Tissue

TestAmerica Job ID: 200-35756-1
SDG: 200-35756-1

## Client Sample ID: NG-PB-TS-KC-KF01

**Lab Sample ID: 200-35756-7**

**Date Collected: 10/14/16 14:55**
**Matrix: Tissue**
**Date Received: 10/15/16 09:30**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 49 | U | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| PCB-1221 | 49 | U | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| PCB-1232 | 49 | U | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| PCB-1242 | 49 | U | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| **PCB-1248** | **160** | J | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| **PCB-1254** | **110** | p J | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| **PCB-1260** | **68** | J | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| PCB-1262 | 49 | U | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |
| PCB-1268 | 49 | U | 49 | 3.2 | ug/Kg | | 12/13/16 10:42 | 12/19/16 16:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *70* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 16:52* | *1* |
| *Tetrachloro-m-xylene* | *64* | | *30 - 130* | *12/13/16 10:42* | *12/19/16 16:52* | *1* |
| *DCB Decachlorobiphenyl* | *50* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 16:52* | *1* |
| *DCB Decachlorobiphenyl* | *52* | | *45 - 125* | *12/13/16 10:42* | *12/19/16 16:52* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 2.5 | | 0.24 | 0.24 | % | | 12/13/16 10:42 | 12/14/16 09:52 | 1 |

## Client Sample ID: NG-PB-TS-HOB1-KF01

**Lab Sample ID: 200-35756-8**

**Date Collected: 10/14/16 11:45**
**Matrix: Tissue**
**Date Received: 10/15/16 09:30**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| PCB-1242 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| **PCB-1248** | **32** | J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| **PCB-1254** | **20** | p J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| **PCB-1260** | **14** | J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/08/16 10:28 | 11/16/16 14:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *48* | | *30 - 130* | *11/08/16 10:28* | *11/16/16 14:36* | *1* |
| *Tetrachloro-m-xylene* | *45* | | *30 - 130* | *11/08/16 10:28* | *11/16/16 14:36* | *1* |
| *DCB Decachlorobiphenyl* | *36* | *X* | *45 - 125* | *11/08/16 10:28* | *11/16/16 14:36* | *1* |
| *DCB Decachlorobiphenyl* | *39* | *X* | *45 - 125* | *11/08/16 10:28* | *11/16/16 14:36* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 0.87 | | 0.078 | 0.078 | % | | 11/09/16 09:11 | 11/09/16 10:21 | 1 |

# Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Paerdegat Basin - Fish & Crab Tissue

TestAmerica Job ID: 200-35756-1
SDG: 200-35756-1

**Client Sample ID: EBLK01**
**Date Collected: 10/15/16 14:45**
**Date Received: 10/15/16 09:30**

**Lab Sample ID: 200-35756-9**
**Matrix: Tissue**

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 0.43 | U R | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1221 | 0.43 | U | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1232 | 0.43 | U | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1242 | 0.43 | U | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1248 | 0.43 | U | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1254 | 0.43 | U | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1260 | 0.43 | U | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1262 | 0.43 | U | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |
| PCB-1268 | 0.43 | U R | 0.43 | 0.028 | ug/Kg | | 11/08/16 10:28 | 11/14/16 18:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *1* | *X* | *30 - 130* | *11/08/16 10:28* | *11/14/16 18:20* | *1* |
| *Tetrachloro-m-xylene* | *2* | *X* | *30 - 130* | *11/08/16 10:28* | *11/14/16 18:20* | *1* |
| *DCB Decachlorobiphenyl* | *3* | *X* | *45 - 125* | *11/08/16 10:28* | *11/14/16 18:20* | *1* |
| *DCB Decachlorobiphenyl* | *3* | *X* | *45 - 125* | *11/08/16 10:28* | *11/14/16 18:20* | *1* |

# Chain of Custody Record - Tissue

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Laboratory location: Test America

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

| Client Contact | Client Project Manager: | Site Contact: | Lab Contact: | COC No: |
|---|---|---|---|---|
| Company Name: GEI Consultants, Inc. | Barry Giroux | John Gondek | Don Dawicki | |
| Address: 455 Winding Brook Dr. Suite 201 | Telephone: (860)368-5300 | Telephone: (845) 323-6424 | Telephone: (802) 923-1026 | of COCs |
| City/State/Zip: Glastonbury, CT 06033 | Email: bgiroux@geiconsultants.com | | | |
| Phone: (860)368-5300 | | TAT: (see contract) ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | |
| Project Name: Paerdegat Basin | | | | |
| Project Number: 129600 | Method of Shipment/Carrier: Carrier | | | |
| PO # | Shipping/Tracking No: NA | | | |

Analyses

| Sample Identification | Sample Date | Sample Time | Matrix: Tissue | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: | | PCB Aroclors (8082A) | % Moisture | % Lipids | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NG-PB-TS-MS-KF01 | 10/12/16 | 1515 | X | | | | | | | | | | X | | C | X | X | X | |
| NG-PB-TS-HOB2-KF01 | 10/13/16 | 1125 | X | | | | | | | | | | X | | C | X | X | X | |
| NG-PB-TS-CP1-KF01 | 10/12/16 | 1625 | X | | | | | | | | | | X | | C | X | X | X | |
| NG-PB-TS-CP2-KF02 | 10/12/16 | 1645 | X | | | | | | | | | | X | | C | X | X | X | Correct ID NG-PB-TS-CP2-KF01 per Ryan Holen dm 1/12/17 MS/MSD |
| NG-PB-TS-HR2-KF01 | 10/13/16 | 1545 | X | | | | | | | | | | X | | C | X | X | X | |
| NG-PB-TS-HOB3-KF01 | 10/13/16 | 1225 | X | | | | | | | | | | X | | C | X | X | X | |
| NG-PB-TS-KC-KF01 | 10/19/16 | 1455 ~~1555~~ | X | | | | | | | | | | X | | C | X | X | X | |
| NG-PB-TS-HOB1-KF01 | 10/14/16 | 1145 | X | | | | | | | | | | X | | C | X | X | X | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

200-35756 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ ammable Sk☐ Irritant Pois☐ B Unkn☐ n

Sample Disposal ( A fee may be assessed if samples are retained longer than 1
☐ Return to Client ☑ posal By Lab Archiv☐ or

Special Instructions/QC Requirements & Comments:
Send to ~~data~~ eastregiondata@geiconsoltants.com and jgondek@geiconsoltants.com

| | Company: | Date/Time: | | Company: | Date/Time: |
|---|---|---|---|---|---|
| Relinquished by: | GEI | 10.19.16 1615 | Received by: | T. R | 10/19/16 16:15 |
| Relinquished by: | T. R | 10/19/16 1788 | Received by: | | |
| Relinquished by: | | | Received in Laboratory by: | TABUR | 10/15/16 0930 |

# Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Paerdegat Basin - Fish & Crab Tissue

TestAmerica Job ID: 200-35801-1
SDG: 200-35801-1

## Client Sample ID: NG-PB-TS-HR2-SB01

**Date Collected: 10/17/16 15:50**
**Date Received: 10/19/16 10:30**

**Lab Sample ID: 200-35801-1**
**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| PCB-1242 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| PCB-1248 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| **PCB-1254** | **25** | **p** J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| **PCB-1260** | **24** | J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *27* | *X* | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:09* | *1* |
| *Tetrachloro-m-xylene* | *26* | *X* | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:09* | *1* |
| *DCB Decachlorobiphenyl* | *31* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:09* | *1* |
| *DCB Decachlorobiphenyl* | *31* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:09* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | **0.87** | | 0.24 | 0.24 | % | | 12/23/16 09:07 | 12/23/16 13:14 | 1 |

## Client Sample ID: NG-PB-TS-TR2-BF01

**Date Collected: 10/17/16 12:15**
**Date Received: 10/19/16 10:30**

**Lab Sample ID: 200-35801-2**
**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| PCB-1221 | 17 | U | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| PCB-1232 | 17 | U | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| PCB-1242 | 17 | U | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| PCB-1248 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| **PCB-1254** | **19** | J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| **PCB-1260** | **20** | J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| PCB-1262 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |
| PCB-1268 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *36* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:25* | *1* |
| *Tetrachloro-m-xylene* | *38* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:25* | *1* |
| *DCB Decachlorobiphenyl* | *37* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:25* | *1* |
| *DCB Decachlorobiphenyl* | *39* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:25* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | **0.29** | | 0.25 | 0.25 | % | | 12/23/16 09:07 | 12/23/16 13:14 | 1 |



dam 1/12/17

## Client Sample ID: NG-PB-TS-TR2-BF02

**Lab Sample ID: 200-35801-3**

**Date Collected: 10/17/16 12:15**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 19 | U J | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| PCB-1221 | 19 | U | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| PCB-1232 | 19 | U | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| PCB-1242 | 19 | U | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| PCB-1248 | 19 | U J | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| **PCB-1254** | **36** | J | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| **PCB-1260** | **38** | J | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| PCB-1262 | 19 | U J | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |
| PCB-1268 | 19 | U J | 19 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *37* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:42* | *1* |
| *Tetrachloro-m-xylene* | *38* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:42* | *1* |
| *DCB Decachlorobiphenyl* | *40* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:42* | *1* |
| *DCB Decachlorobiphenyl* | *41* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:42* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | **0.87** | | 0.28 | 0.28 | % | | 12/23/16 09:07 | 12/23/16 13:14 | 1 |

## Client Sample ID: NG-PB-TS-TR2-BF03

**Lab Sample ID: 200-35801-4**

**Date Collected: 10/17/16 12:15**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| PCB-1242 | 16 | U | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| PCB-1248 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| **PCB-1254** | **34** | J | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| **PCB-1260** | **44** | J | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 17:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *56* | | *30 - 130* | *11/11/16 14:09* | *11/17/16 17:44* | *1* |
| *Tetrachloro-m-xylene* | *49* | | *30 - 130* | *11/11/16 14:09* | *11/17/16 17:44* | *1* |
| *DCB Decachlorobiphenyl* | *44* | *X* | *45 - 125* | *11/11/16 14:09* | *11/17/16 17:44* | *1* |
| *DCB Decachlorobiphenyl* | *49* | | *45 - 125* | *11/11/16 14:09* | *11/17/16 17:44* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | **0.86** | | 0.079 | 0.079 | % | | 11/11/16 14:09 | 11/15/16 16:05 | 1 |

## Client Sample ID: NG-PB-TS-TR2-BF04

**Lab Sample ID: 200-35801-5**

**Date Collected: 10/17/16 12:15**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 18 | U J | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| PCB-1221 | 18 | U | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| PCB-1232 | 18 | U | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| PCB-1242 | 18 | U | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| PCB-1248 | 18 | U J | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| **PCB-1254** | **13** | J p | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| **PCB-1260** | **19** | J | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| PCB-1262 | 18 | U J | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |
| PCB-1268 | 18 | U J | 18 | 1.2 | ug/Kg | | 11/11/16 14:09 | 11/17/16 18:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *45* | | *30 - 130* | *11/11/16 14:09* | *11/17/16 18:01* | *1* |
| *Tetrachloro-m-xylene* | *43* | | *30 - 130* | *11/11/16 14:09* | *11/17/16 18:01* | *1* |
| *DCB Decachlorobiphenyl* | *39* | *X* | *45 - 125* | *11/11/16 14:09* | *11/17/16 18:01* | *1* |
| *DCB Decachlorobiphenyl* | *43* | *X* | *45 - 125* | *11/11/16 14:09* | *11/17/16 18:01* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | **0.44** | | 0.088 | 0.088 | % | | 11/11/16 14:09 | 11/15/16 16:05 | 1 |

## Client Sample ID: NG-PB-TS-HOB1-AE01

**Lab Sample ID: 200-35801-6**

**Date Collected: 10/18/16 06:25**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| PCB-1242 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| PCB-1248 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| **PCB-1254** | **15** | J p | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| **PCB-1260** | **16** | J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 17:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *43* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:58* | *1* |
| *Tetrachloro-m-xylene* | *44* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 17:58* | *1* |
| *DCB Decachlorobiphenyl* | *43* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:58* | *1* |
| *DCB Decachlorobiphenyl* | *44* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 17:58* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | **0.45** | | 0.23 | 0.23 | % | | 12/23/16 09:07 | 12/23/16 13:14 | 1 |

# Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Paerdegat Basin - Fish & Crab Tissue

TestAmerica Job ID: 200-35801-1
SDG: 200-35801-1

## Client Sample ID: NG-PB-TS-HR1-KF01

**Lab Sample ID: 200-35801-7**

Date Collected: 10/18/16 07:15
Date Received: 10/19/16 10:30

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 15 | U J | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| PCB-1221 | 15 | U | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| PCB-1232 | 15 | U | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| PCB-1242 | 15 | U J | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| **PCB-1248** | **37** | J | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| **PCB-1254** | **48** | J | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| **PCB-1260** | **37** | J | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| PCB-1262 | 15 | U J | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |
| PCB-1268 | 15 | U J | 15 | 0.99 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *69* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 18:15* | *1* |
| *Tetrachloro-m-xylene* | *60* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 18:15* | *1* |
| *DCB Decachlorobiphenyl* | *42* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 18:15* | *1* |
| *DCB Decachlorobiphenyl* | *44* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 18:15* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 0.53 | | 0.23 | 0.23 | % | | 12/23/16 09:07 | 12/23/16 13:14 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC01

**Lab Sample ID: 200-35801-8**

Date Collected: 10/18/16 10:45
Date Received: 10/19/16 10:30

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| PCB-1221 | 16 | U | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| PCB-1232 | 16 | U | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| PCB-1242 | 16 | U | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| PCB-1248 | 16 | U | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| PCB-1254 | 16 | U J | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| **PCB-1260** | **2.8** | J | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *50* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 18:31* | *1* |
| *Tetrachloro-m-xylene* | *51* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 18:31* | *1* |
| *DCB Decachlorobiphenyl* | *40* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 18:31* | *1* |
| *DCB Decachlorobiphenyl* | *40* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 18:31* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 1.7 | | 0.061 | 0.061 | % | | 11/10/16 16:24 | 11/15/16 16:40 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC02

**Lab Sample ID: 200-35801-9**

**Date Collected: 10/18/16 10:45**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 18 | U | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| PCB-1221 | 18 | U | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| PCB-1232 | 18 | U J | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| PCB-1242 | 18 | U | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| PCB-1248 | 18 | U | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| PCB-1254 | 18 | U | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| **PCB-1260** | ~~2.1 J~~ 18U | | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| PCB-1262 | 18 | U J | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |
| PCB-1268 | 18 | U | 18 | 1.2 | ug/Kg | | 12/23/16 09:07 | 12/29/16 18:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *59* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 18:48* | *1* |
| *Tetrachloro-m-xylene* | *59* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 18:48* | *1* |
| *DCB Decachlorobiphenyl* | *47* | | *45 - 125* | *12/23/16 09:07* | *12/29/16 18:48* | *1* |
| *DCB Decachlorobiphenyl* | *47* | | *45 - 125* | *12/23/16 09:07* | *12/29/16 18:48* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Lipids** | **4.4** | | 0.077 | 0.077 | % | | 11/10/16 16:24 | 11/15/16 16:40 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC03

**Lab Sample ID: 200-35801-10**

**Date Collected: 10/18/16 10:45**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 15 | U J | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| PCB-1221 | 15 | U | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| PCB-1232 | 15 | U | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| PCB-1242 | 15 | U | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| PCB-1248 | 15 | U | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| PCB-1254 | 15 | U J | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| **PCB-1260** | **2.2** | J | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| PCB-1262 | 15 | U J | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |
| PCB-1268 | 15 | U J | 15 | 0.97 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *58* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 19:04* | *1* |
| *Tetrachloro-m-xylene* | *61* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 19:04* | *1* |
| *DCB Decachlorobiphenyl* | *43* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 19:04* | *1* |
| *DCB Decachlorobiphenyl* | *44* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 19:04* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Lipids** | **1.7** | | 0.073 | 0.073 | % | | 11/10/16 16:24 | 11/15/16 16:40 | 1 |

## Client Sample ID: NG-PB-TS-HR2-AE01

**Lab Sample ID: 200-35801-11**

**Date Collected: 10/18/16 10:10**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| PCB-1221 | 17 | U | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| PCB-1232 | 17 | U | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| PCB-1242 | 17 | U | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| PCB-1248 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| **PCB-1254** | **21** | J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| **PCB-1260** | **23** | J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| PCB-1262 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |
| PCB-1268 | 17 | U J | 17 | 1.1 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *46* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 19:37* | *1* |
| *Tetrachloro-m-xylene* | *49* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 19:37* | *1* |
| *DCB Decachlorobiphenyl* | *35* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 19:37* | *1* |
| *DCB Decachlorobiphenyl* | *37* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 19:37* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Lipids** | **0.58** | | 0.25 | 0.25 | % | | 12/23/16 09:07 | 12/23/16 13:14 | 1 |

## Client Sample ID: NG-PB-TS-TR2-BC01

**Lab Sample ID: 200-35801-12**

**Date Collected: 10/18/16 13:25**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 14 | U J | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| PCB-1221 | 14 | U | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| PCB-1232 | 14 | U | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| PCB-1242 | 14 | U | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| PCB-1248 | 14 | U | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| PCB-1254 | 14 | U J | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| **PCB-1260** | **2.7** | J | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| PCB-1262 | 14 | U J | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |
| PCB-1268 | 14 | U J | 14 | 0.94 | ug/Kg | | 11/11/16 14:09 | 11/17/16 20:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *19* | *X* | *30 - 130* | *11/11/16 14:09* | *11/17/16 20:29* | *1* |
| *Tetrachloro-m-xylene* | *21* | *X* | *30 - 130* | *11/11/16 14:09* | *11/17/16 20:29* | *1* |
| *DCB Decachlorobiphenyl* | *19* | *X* | *45 - 125* | *11/11/16 14:09* | *11/17/16 20:29* | *1* |
| *DCB Decachlorobiphenyl* | *21* | *X* | *45 - 125* | *11/11/16 14:09* | *11/17/16 20:29* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Lipids** | **0.12** | | 0.071 | 0.071 | % | | 11/11/16 14:09 | 11/15/16 16:05 | 1 |

# Client Sample Results

Client: GEI Consultants, Inc.
Project/Site: Paerdegat Basin - Fish & Crab Tissue

TestAmerica Job ID: 200-35801-1
SDG: 200-35801-1

## Client Sample ID: NG-PB-TS-MS-AE01

**Lab Sample ID: 200-35801-13**

Date Collected: 10/18/16 15:30
Date Received: 10/19/16 10:30

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| PCB-1242 | 16 | U | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| PCB-1248 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| **PCB-1254** | **95** | ~~p~~ J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| **PCB-1260** | **86** | J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 12/23/16 09:07 | 12/29/16 19:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *58* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 19:54* | *1* |
| *Tetrachloro-m-xylene* | *57* | | *30 - 130* | *12/23/16 09:07* | *12/29/16 19:54* | *1* |
| *DCB Decachlorobiphenyl* | *40* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 19:54* | *1* |
| *DCB Decachlorobiphenyl* | *42* | *X* | *45 - 125* | *12/23/16 09:07* | *12/29/16 19:54* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 6.0 | | 0.23 | 0.23 | % | | 12/23/16 09:07 | 12/23/16 13:14 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC04

**Lab Sample ID: 200-35801-14**

Date Collected: 10/18/16 15:30
Date Received: 10/19/16 10:30

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 15 | U J | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| PCB-1221 | 15 | U | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| PCB-1232 | 15 | U | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| PCB-1242 | 15 | U | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| PCB-1248 | 15 | U | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| PCB-1254 | 15 | U J | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| **PCB-1260** | ~~5.6 J p~~ 15 UJ | | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| PCB-1262 | 15 | U J | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |
| PCB-1268 | 15 | U J | 15 | 1.0 | ug/Kg | | 11/11/16 14:09 | 11/17/16 21:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *38* | | *30 - 130* | *11/11/16 14:09* | *11/17/16 21:01* | *1* |
| *Tetrachloro-m-xylene* | *41* | | *30 - 130* | *11/11/16 14:09* | *11/17/16 21:01* | *1* |
| *DCB Decachlorobiphenyl* | *36* | *X* | *45 - 125* | *11/11/16 14:09* | *11/17/16 21:01* | *1* |
| *DCB Decachlorobiphenyl* | *39* | *X* | *45 - 125* | *11/11/16 14:09* | *11/17/16 21:01* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 3.0 | | 0.079 | 0.079 | % | | 11/10/16 16:24 | 11/15/16 16:40 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC01H

**Lab Sample ID: 200-35801-15**

**Date Collected: 10/18/16 10:45**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 12 | U J | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| PCB-1221 | 12 | U | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| PCB-1232 | 12 | U | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| PCB-1242 | 12 | U | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| PCB-1248 | 12 | U | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| PCB-1254 | 12 | U J | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| **PCB-1260** | **50** | J | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| PCB-1262 | 12 | U J | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |
| PCB-1268 | 12 | U J | 12 | 0.80 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *47* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 18:38* | *1* |
| *Tetrachloro-m-xylene* | *48* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 18:38* | *1* |
| *DCB Decachlorobiphenyl* | *41* | *X* | *45 - 125* | *11/10/16 17:00* | *11/22/16 18:38* | *1* |
| *DCB Decachlorobiphenyl* | *45* | | *45 - 125* | *11/10/16 17:00* | *11/22/16 18:38* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 1.7 | | 0.061 | 0.061 | % | | 12/09/16 15:11 | 12/09/16 15:17 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC02H

**Lab Sample ID: 200-35801-16**

**Date Collected: 10/18/16 10:45**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| PCB-1242 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| PCB-1248 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| PCB-1254 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| **PCB-1260** | **71** | J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 18:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *37* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 18:54* | *1* |
| *Tetrachloro-m-xylene* | *35* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 18:54* | *1* |
| *DCB Decachlorobiphenyl* | *36* | *X* | *45 - 125* | *11/10/16 17:00* | *11/22/16 18:54* | *1* |
| *DCB Decachlorobiphenyl* | *39* | *X* | *45 - 125* | *11/10/16 17:00* | *11/22/16 18:54* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 4.4 | | 0.077 | 0.077 | % | | 12/09/16 15:11 | 12/09/16 15:17 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC04H

**Lab Sample ID: 200-35801-17**

**Date Collected: 10/18/16 15:30**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 15 | U UJ | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| PCB-1221 | 15 | U | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| PCB-1232 | 15 | U | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| PCB-1242 | 15 | U | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| PCB-1248 | 15 | U | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| PCB-1254 | 15 | U J | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| **PCB-1260** | **41** | J | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| PCB-1262 | 15 | U J | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |
| PCB-1268 | 15 | U J | 15 | 0.96 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *45* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 19:11* | *1* |
| *Tetrachloro-m-xylene* | *40* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 19:11* | *1* |
| *DCB Decachlorobiphenyl* | *39* | *X* | *45 - 125* | *11/10/16 17:00* | *11/22/16 19:11* | *1* |
| *DCB Decachlorobiphenyl* | *41* | *X* | *45 - 125* | *11/10/16 17:00* | *11/22/16 19:11* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 1.7 | | 0.073 | 0.073 | % | | 12/09/16 15:11 | 12/09/16 15:17 | 1 |

## Client Sample ID: NG-PB-TS-MS-BC03(COMP)

**Lab Sample ID: 200-35801-18**

**Date Collected: 10/18/16 10:45**
**Date Received: 10/19/16 10:30**

**Matrix: Tissue**

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 16 | ~~U~~ UJ | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| PCB-1221 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| PCB-1232 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| PCB-1242 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| PCB-1248 | 16 | U | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| PCB-1254 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| **PCB-1260** | **130** | J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| PCB-1262 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |
| PCB-1268 | 16 | U J | 16 | 1.0 | ug/Kg | | 11/10/16 17:00 | 11/22/16 19:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *46* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 19:27* | *1* |
| *Tetrachloro-m-xylene* | *47* | | *30 - 130* | *11/10/16 17:00* | *11/22/16 19:27* | *1* |
| *DCB Decachlorobiphenyl* | *46* | | *45 - 125* | *11/10/16 17:00* | *11/22/16 19:27* | *1* |
| *DCB Decachlorobiphenyl* | *50* | | *45 - 125* | *11/10/16 17:00* | *11/22/16 19:27* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Lipids | 3.0 | | 0.079 | 0.079 | % | | 12/09/16 15:11 | 12/09/16 15:17 | 1 |

# Chain of Custody Record - Tissue

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**Laboratory location:** Test America

**Regulatory program:** ☐ DW ☐ NPDES ☐ RCRA ☐ Other

| Client Contact | Client Project Manager: | Site Contact: | Lab Contact: | COC No: |
|---|---|---|---|---|
| Company Name: Consultants, Inc. | Barry Giroux | John Gondek | Don Dawicki | |
| Address: inding Brook Dr. Suite 201 | Telephone: (860)368-5300 | Telephone: (845) 323-6424 | Telephone: (802) 923-1026 | 1 of COCs |
| City/State/Zip: nbury, CT 06033 | Email: bgiroux@peiconsultants.com | Analysis Turnaround Time (in BUS days) | | For lab use only |
| Phone: 68-5300 | | TAT: (see contract) ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: Lab sampling: Job/SDG No: |
| Project Name: egat Basin | Method of Shipment/Carrier: | | | |
| Project Number: 0 | Shipping/Tracking No: NA | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Tissue | Aqueous | Sediment | Solid | Other | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other | Filtered Sample (Y / N) | Composite=C / Grab=G | PCB Aroclors (8082A) | % Moisture | % Lipids | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -PB-TS-HR2-SB01 | 10/17/16 | 1550 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-TR2-BF01 | | 1215 | X | | | | | | | | | | X | | | | X | X | X | Preference is to analyze individually. Please call if insufficient mass |
| -PB-TS-TR2-BF02 | | 1215 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-TR2-BF03 | ↓ | 1215 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-TR2-BF04 | 10/17/16 | 1215 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-HOB1-AE01 | 10/18/16 | 0625 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-HR1-KF01 | 10/18/16 | 0715 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-MS-BC01 | 10/18/16 | 1045 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-MS-BC02 | 10/18/16 | 1045 | X | | | | | | | | | | X | | | | X | X | X | |
| -PB-TS-MS-BC03 | 10/18/16 | 1045 | X | | | | | | | | | | X | | | | X | X | X | |

200-35801 Chain of Custody

**Possible Hazard Identification**
☐ Non-Hazard ☐ ammable ☐ Irritant ☐ Poi ☐ B ☐ Unkn ☐

**Sample Disposal** ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ posal By Lab ☐ Archiv or ☐ Months

**Special Instructions/QC Requirements & Comments:**

| | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| quished by: | GEI | 10.18.16 1615 | | T. H | 10/19/16 10:15 |
| quished by: | T. H | 10/18/16 17:30 | | Company: | Date/Time: |
| quished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

# Chain of Custody Record - Tissue

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Laboratory location: Test America

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

| Client Contact | Client Project Manager: | Site Contact: | Lab Contact: | COC No: |
|---|---|---|---|---|
| Company Name: Geiconsultants, Inc. | Barry Giroux | John Gondek | Don Dawicki | |
| Address: Winding Brook Dr. Suite 201 | Telephone: (860)368-5300 | Telephone: (845) 323-6424 | Telephone: (802) 923-1026 | 2 of COCs |
| City/State/Zip: Glastonbury, CT 06033 | Email: bgiroux@geiconsultants.com | | | |
| Phone: (860)368-5300 | | | | |
| Project Name: Wegat Basin | Method of Shipment/Carrier: | | | |
| Project Number: 0 | Shipping/Tracking No: NA | | | |

Analysis Turnaround Time (in BUS days)
TAT: (see contract)
☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Analyses

For lab use only
Walk in client:
Lab sampling:
Job/SDG No.:

| Sample Identification | Sample Date | Sample Time | Matrix: Tissue | Aqueous | Sediment | Solid | Other | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | Zn Ac/NaOH | Unpres | Other | Filtered Sample (Y/N) | Composite (C) / Grab (G) | PCB Aroclors (8082A) | % Moisture | % Lipids | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NG-PB-TS-HR2-AE01 | 10/18/16 | 1010 | X | | | | | | | | | | X | | | | X | X | X | |
| NG-PB-TS-TR2-~~BC04~~ BC02 | 10/18/16 | 1325 | X | | | | | | | | | | X | | | | X | X | X | |
| NG-PB-TS-MS-AE02 | 10/18/16 | 1530 | X | | | | | | | | | | X | | | | X | X | X | Please MS/MSD |
| NG-PB-TS-MS-~~BC05~~ BC04 | 10/18/16 | 1530 | X | | | | | | | | | | X | | | | X | X | X | |

Possible Hazard Identification
☐ Non-Hazard ☐ ammable Sk ☐ Irritant Pois ☐ B Unkn ☐ n

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ posal By Lab Archiv ☐ or Months

Special Instructions/QC Requirements & Comments:
Clarify Sample IDs w/ corrections above are: NG-PB-TS-TR2-BC02
NG-PB-TS-MS-BC04

| Relinquished by: | Company: GEI | Date/Time: 10/19/16 1615 | Received by: | Company: T. A | Date/Time: 10/19/16 16:15 |
|---|---|---|---|---|---|
| Relinquished by: | Company: T. A | Date/Time: 10/19/16 1735 | Received by: | Company: | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

## Dusablon, Kris

**From:** Holem, Ryan <rholem@geiconsultants.com>
**Sent:** Wednesday, October 26, 2016 10:25 AM
**To:** Giroux, Barry; Dusablon, Kris
**Cc:** Bradley, Kim; Gondek, John
**Subject:** RE: TestAmerica Burlington - Quote #20006695 - GEI Consultants, Inc. - Paerdegat Basin - Fish & Crab Tissue

Barry –
Here you go....

| Sample type | Number |
|---|---|
| Killifish | 9 |
| Blue crab* | 5 |
| Bluefish | 4 |
| American eel | 3 |
| Striped bass | 1 |
| Total | 22 |

*Blue crab edible tissue and hepatopancreas samples being analyzed separately. Hepatopancreas samples from two blue crabs were too small for individual analysis and will be composited.

Sincerely,

Ryan Holem

GEI Consultants of Michigan, P.C.
Cell: 517-881-4558
Office: 517-803-2838

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**From:** Giroux, Barry
**Sent:** Wednesday, October 26, 2016 9:51 AM
**To:** Holem, Ryan <rholem@geiconsultants.com>; Dusablon, Kris <Kristine.Dusablon@testamericainc.com>
**Cc:** Bradley, Kim <KBradley@geiconsultants.com>; Gondek, John <jgondek@geiconsultants.com>
**Subject:** RE: TestAmerica Burlington - Quote #20006695 - GEI Consultants, Inc. - Paerdegat Basin - Fish & Crab Tissue

Ryan,
Can you provide me with a summary of the samples sent to the lab, which will be analyzed. I don't need sample identifications, but just the number of each species to be analyzed. I want to send DEC a summary of what is being analyzed.

Thanks,

Barry
(860) 368-5340

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**From:** Holem, Ryan
**Sent:** Tuesday, October 25, 2016 4:33 PM
**To:** Dusablon, Kris <Kristine.Dusablon@testamericainc.com>; Giroux, Barry <BGiroux@geiconsultants.com>