

# Chemical Analysis Report

**TLH-ROC-2022-08-16-01**

Florida Department of Environmental Protection  
Central Laboratory  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
DOH Accreditation E31780

Event Description: **June-Aug. North Run**  
Request ID: **RQ-2022-08-15-32**  
Customer: **TLH-ROC**  
Project ID: **SMP**

Send Reports to:  
FL Dept. of Environmental Protection  
2600 Blair Stone Rd  
Tallahassee, FL 32399  
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 01-SEP-2022 10:13

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

## Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to  $1.3 \times 10^3$  or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (\*\*) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Gilberts Mill Creek @ Aycock Rd

Collection Date/Time: 08/16/2022 11:10

Field ID: G3TLHR0050

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component  | Result   | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|------------|----------|------|-------|----------|----------|
| 2349707   | EPA 200.7 Rev. 4.4 | Calcium    | 2.87     |      | mg/L  | P418215  |          |
|           |                    | Iron       | 1.52E+03 |      | ug/L  | P418215  |          |
|           |                    | Magnesium  | 1.0      |      | mg/L  | P418215  |          |
|           |                    | Potassium  | 0.99     | I    | mg/L  | P418215  |          |
|           |                    | Sodium     | 1.5      | I    | mg/L  | P418215  |          |
|           |                    | Strontium  | 10.6     |      | ug/L  | P418215  |          |
|           |                    | Tin        | 3.0      | U    | ug/L  | P418215  |          |
|           |                    | Titanium   | 0.88     | I    | ug/L  | P418215  |          |
|           |                    | Vanadium   | 2.0      | U    | ug/L  | P418215  |          |
|           |                    | Zinc       | 5.0      | U    | ug/L  | P418215  |          |
|           | EPA 200.8 Rev. 5.4 | Aluminum   | 249      |      | ug/L  | P418215  |          |
|           |                    | Antimony   | 0.052    | I    | ug/L  | P418215  |          |
|           |                    | Arsenic    | 0.94     |      | ug/L  | P418215  |          |
|           |                    | Barium     | 16.6     |      | ug/L  | P418215  |          |
|           |                    | Beryllium  | 0.022    | I    | ug/L  | P418215  |          |
|           |                    | Boron      | 17.0     |      | ug/L  | P418215  |          |
|           |                    | Cadmium    | 0.020    | U    | ug/L  | P418215  |          |
|           |                    | Chromium   | 0.40     | U    | ug/L  | P418215  |          |
|           |                    | Cobalt     | 0.249    |      | ug/L  | P418215  |          |
|           |                    | Copper     | 0.67     | I    | ug/L  | P418215  |          |
|           | SM 2340 B-2011     | Lead       | 0.67     |      | ug/L  | P418215  |          |
|           |                    | Manganese  | 129      |      | ug/L  | P418215  |          |
|           |                    | Molybdenum | 0.15     | U    | ug/L  | P418215  |          |
|           |                    | Nickel     | 0.50     | U    | ug/L  | P418215  |          |
|           |                    | Selenium   | 0.21     | I    | ug/L  | P418215  |          |
|           |                    | Silver     | 0.010    | U    | ug/L  | P418215  |          |
|           |                    | Thallium   | 0.10     | U    | ug/L  | P418215  |          |
|           |                    | Hardness   | 11.3     |      | mg/L  | P418215  |          |

Ref. Method and Comment:  
 EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 08/22/2022.

Sample Location: Unnamed Branch @ Flat Creek Rd

Collection Date/Time: 08/16/2022 12:35

Field ID: G2TLHR0031

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component           | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|---------------------|--------|------|-------|----------|----------|
| 2349702   | EPA 8270E   | Aldrin              | 0.75   | U    | ng/L  | P418277  |          |
|           |             | Alpha-BHC           | 0.12   | U    | ng/L  | P418277  |          |
|           |             | Alpha-Chlordane     | 0.23   | U    | ng/L  | P418277  |          |
|           |             | PCB-1016            | 2.3    | U    | ng/L  | P418277  |          |
|           |             | Beta-BHC            | 0.12   | U    | ng/L  | P418277  |          |
|           |             | PCB-1221            | 2.3    | U    | ng/L  | P418277  |          |
|           |             | Beta-Cyfluthrin     | 1.4    | U    | ng/L  | P418277  |          |
|           |             | PCB-1232            | 2.3    | U    | ng/L  | P418277  |          |
|           |             | Bifenthrin          | 0.58   | U    | ng/L  | P418277  |          |
|           |             | PCB-1242            | 2.3    | U    | ng/L  | P418277  |          |
|           |             | PCB-1248            | 2.3    | U    | ng/L  | P418277  |          |
|           |             | Chlorothalonil      | 1.4    | U    | ng/L  | P418277  |          |
|           |             | PCB-1254            | 2.3    | U    | ng/L  | P418277  |          |
|           |             | Cis-Nonachlor       | 0.23   | U    | ng/L  | P418277  |          |
|           |             | PCB-1260            | 2.3    | U    | ng/L  | P418277  |          |
|           |             | Cypermethrin        | 1.7    | U    | ng/L  | P418277  |          |
|           |             | Dacthal             | 0.17   | U    | ng/L  | P418277  |          |
|           |             | DDD-p,p'            | 0.29   | U    | ng/L  | P418277  |          |
|           |             | DDE-p,p'            | 0.23   | U    | ng/L  | P418277  |          |
|           |             | DDT-p,p'            | 0.29   | U    | ng/L  | P418277  |          |
|           |             | Delta-BHC           | 0.46   | U    | ng/L  | P418277  |          |
|           |             | Deltamethrin        | 1.4    | U    | ng/L  | P418277  |          |
|           |             | Dichlobenil         | 0.29   | U    | ng/L  | P418277  |          |
|           |             | Dicofol             | 1.4    | U    | ng/L  | P418277  |          |
|           |             | Dieldrin            | 0.46   | U    | ng/L  | P418277  |          |
|           |             | Endosulfan I        | 0.46   | U    | ng/L  | P418277  |          |
|           |             | Endosulfan II       | 0.46   | U    | ng/L  | P418277  |          |
|           |             | Endosulfan Sulfate  | 0.35   | U    | ng/L  | P418277  |          |
|           |             | Endrin              | 0.46   | U    | ng/L  | P418277  |          |
|           |             | Endrin Aldehyde     | 0.87   | U    | ng/L  | P418277  |          |
|           |             | Endrin Ketone       | 0.46   | U    | ng/L  | P418277  |          |
|           |             | Esfenvalerate       | 0.87   | U    | ng/L  | P418277  |          |
|           |             | Ethalfuralin        | 0.17   | U    | ng/L  | P418277  |          |
|           |             | Fenpropathrin       | 0.29   | UJ   | ng/L  | P418277  | CCV      |
|           |             | Gamma-BHC           | 0.14   | U    | ng/L  | P418277  | RPD      |
|           |             | Gamma-Chlordane     | 0.23   | U    | ng/L  | P418277  |          |
|           |             | Heptachlor          | 0.23   | U    | ng/L  | P418277  |          |
|           |             | Heptachlor Epoxide  | 0.29   | U    | ng/L  | P418277  |          |
|           |             | Hexachlorobenzene** | 1.2    | U    | ng/L  | P418277  |          |
|           |             | Kepone              | 5.8    | U    | ng/L  | P418277  |          |
|           |             | Lambda-Cyhalothrin  | 0.87   | U    | ng/L  | P418277  |          |
|           |             | Methoprene          | 0.87   | U    | ng/L  | P418277  |          |
|           |             | Methoxychlor        | 0.35   | U    | ng/L  | P418277  |          |
|           |             | MGK-264             | 0.23   | U    | ng/L  | P418277  |          |

Field ID: G2TLHR0031

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component          | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|--------------------|--------|------|-------|----------|----------|
| 2349702   | EPA 8270E   | Mirex              | 0.41   | U    | ng/L  | P418277  |          |
|           |             | Oxychlordane       | 0.35   | U    | ng/L  | P418277  |          |
|           |             | Permethrin         | 1.9    | U    | ng/L  | P418277  |          |
|           |             | Phenothrin         | 1.0    | U    | ng/L  | P418277  |          |
|           |             | Piperonyl Butoxide | 0.17   | U    | ng/L  | P418277  |          |
|           |             | Prallethrin        | 2.3    | U    | ng/L  | P418277  |          |
|           |             | Tau-Fluvalinate    | 0.29   | U    | ng/L  | P418277  |          |
|           |             | Tetramethrin       | 0.87   | U    | ng/L  | P418277  |          |
|           |             | Trans-Nonachlor    | 0.23   | U    | ng/L  | P418277  |          |
|           |             | Triclosan Methyl   | 0.17   | U    | ng/L  | P418277  |          |
|           |             | Trifluralin        | 0.23   | U    | ng/L  | P418277  |          |
|           | EPA 8276    | Chlordane          | 2.9    | U    | ng/L  | P418277  |          |
|           |             | Toxaphene          | 17     | U    | ng/L  | P418277  |          |

Ref. Method and Comment:  
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Mosquito Creek @ SR269

Collection Date/Time: 08/16/2022 13:10

Field ID: G2TLHR0015

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component           | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|---------------------|---------|------|-------|----------|----------|
| 2349699   | EPA 8321B   | Aldicarb            | 0.020   | U    | ug/L  | P418426  |          |
|           |             | Aldicarb Sulfone    | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | Aldicarb Sulfoxide  | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | Carbaryl            | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | Carbofuran          | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | 3-Hydroxycarbofuran | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | Methiocarb          | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | Methomyl            | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | Oxamyl              | 0.0020  | U    | ug/L  | P418426  |          |
|           |             | Propoxur            | 0.0020  | U    | ug/L  | P418426  |          |
| 2349700   |             | 2,4-D               | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | Acesulfame K        | 0.10    | U    | ug/L  | P418300  |          |
|           |             | 2,4,5-T             | 0.0040  | U    | ug/L  | P418169  |          |
|           |             | AMPA                | 0.10    | U    | ug/L  | P418300  |          |
|           |             | Acetaminophen       | 0.0080  | U    | ug/L  | P418169  |          |
|           |             | Acetamiprid         | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | Endothall           | 0.25    | U    | ug/L  | P418300  |          |
|           |             | Glufosinate         | 0.10    | U    | ug/L  | P418300  |          |
|           |             | Glyphosate          | 0.10    | U    | ug/L  | P418300  |          |
|           |             | Afidopyropen        | 0.0020  | U    | ug/L  | P418169  | MS       |
|           |             | Bentazon            | 0.0060  |      | ug/L  | P418169  |          |
|           |             | Sucralose           | 0.16    |      | ug/L  | P418300  |          |
|           |             | Benzovindiflupyr    | 0.0025  | I    | ug/L  | P418169  |          |
|           |             | Carbamazepine       | 0.0014  | I    | ug/L  | P418169  |          |
|           |             | Clothianidin        | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | Dinotefuran         | 0.089   |      | ug/L  | P418169  |          |
|           |             | Diuron              | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | Fenuron             | 0.032   | U    | ug/L  | P418169  |          |
|           |             | Fluridone           | 8.0E-04 | U    | ug/L  | P418169  |          |
|           |             | Imazapyr            | 0.012   | I    | ug/L  | P418169  |          |
|           |             | Hydrocodone         | 0.0020  | U    | ug/L  | P418169  | MS       |
|           |             | Ibuprofen           | 0.080   | U    | ug/L  | P418169  |          |
|           |             | Imidacloprid        | 0.0048  | I    | ug/L  | P418169  |          |
|           |             | Linuron             | 0.0040  | U    | ug/L  | P418169  |          |
|           |             | Mandestrobin        | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | MCPP                | 0.0040  | U    | ug/L  | P418169  |          |
|           |             | Naproxen            | 0.0080  | U    | ug/L  | P418169  |          |
|           |             | Primidone           | 0.0040  | U    | ug/L  | P418169  |          |
|           |             | Pyraclostrobin      | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | Silvex              | 0.0040  | U    | ug/L  | P418169  |          |
|           |             | Thiamethoxam        | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | Tolfenpyrad         | 0.0020  | U    | ug/L  | P418169  |          |
|           |             | Triclopyr           | 0.0040  | U    | ug/L  | P418169  |          |
| 2349703   | EPA 8270E   | Aldrin              | 0.69    | U    | ng/L  | P418277  |          |

Field ID: G2TLHR0015

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component           | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|---------------------|--------|------|-------|----------|----------|
| 2349703   | EPA 8270E   | Alpha-BHC           | 0.11   | U    | ng/L  | P418277  |          |
|           |             | Alpha-Chlordane     | 0.21   | U    | ng/L  | P418277  |          |
|           |             | PCB-1016            | 2.1    | U    | ng/L  | P418277  |          |
|           |             | Beta-BHC            | 0.11   | U    | ng/L  | P418277  |          |
|           |             | PCB-1221            | 2.1    | U    | ng/L  | P418277  |          |
|           |             | Beta-Cyfluthrin     | 1.3    | U    | ng/L  | P418277  |          |
|           |             | PCB-1232            | 2.1    | U    | ng/L  | P418277  |          |
|           |             | Bifenthrin          | 0.53   | U    | ng/L  | P418277  |          |
|           |             | PCB-1242            | 2.1    | U    | ng/L  | P418277  |          |
|           |             | PCB-1248            | 2.1    | U    | ng/L  | P418277  |          |
|           |             | Chlorothalonil      | 1.3    | U    | ng/L  | P418277  |          |
|           |             | PCB-1254            | 2.1    | U    | ng/L  | P418277  |          |
|           |             | Cis-Nonachlor       | 0.21   | U    | ng/L  | P418277  |          |
|           |             | PCB-1260            | 2.1    | U    | ng/L  | P418277  |          |
|           |             | Cypermethrin        | 1.6    | U    | ng/L  | P418277  |          |
|           |             | Dacthal             | 0.16   | U    | ng/L  | P418277  |          |
|           |             | DDD-p,p'            | 0.27   | U    | ng/L  | P418277  |          |
|           |             | DDE-p,p'            | 0.21   | U    | ng/L  | P418277  |          |
|           |             | DDT-p,p'            | 0.27   | U    | ng/L  | P418277  |          |
|           |             | Delta-BHC           | 0.43   | U    | ng/L  | P418277  |          |
|           |             | Deltamethrin        | 1.3    | U    | ng/L  | P418277  |          |
|           |             | Dichlobenil         | 0.27   | U    | ng/L  | P418277  |          |
|           |             | Dicofol             | 1.3    | U    | ng/L  | P418277  |          |
|           |             | Dieldrin            | 0.43   | U    | ng/L  | P418277  |          |
|           |             | Endosulfan I        | 0.43   | U    | ng/L  | P418277  |          |
|           |             | Endosulfan II       | 0.43   | U    | ng/L  | P418277  |          |
|           |             | Endosulfan Sulfate  | 0.32   | U    | ng/L  | P418277  |          |
|           |             | Endrin              | 0.43   | U    | ng/L  | P418277  |          |
|           |             | Endrin Aldehyde     | 0.80   | U    | ng/L  | P418277  |          |
|           |             | Endrin Ketone       | 0.43   | U    | ng/L  | P418277  |          |
|           |             | Esfenvalerate       | 0.80   | U    | ng/L  | P418277  |          |
|           |             | Ethalfuralin        | 0.16   | U    | ng/L  | P418277  |          |
|           |             | Fenpropathrin       | 0.27   | UJ   | ng/L  | P418277  | CCV      |
|           |             | Gamma-BHC           | 0.13   | U    | ng/L  | P418277  | RPD      |
|           |             | Gamma-Chlordane     | 0.21   | U    | ng/L  | P418277  |          |
|           |             | Heptachlor          | 0.21   | U    | ng/L  | P418277  |          |
|           |             | Heptachlor Epoxide  | 0.27   | U    | ng/L  | P418277  |          |
|           |             | Hexachlorobenzene** | 1.1    | U    | ng/L  | P418277  |          |
|           |             | Kepone              | 5.3    | U    | ng/L  | P418277  |          |
|           |             | Lambda-Cyhalothrin  | 0.80   | U    | ng/L  | P418277  |          |
|           |             | Methoprene          | 0.80   | U    | ng/L  | P418277  |          |
|           |             | Methoxychlor        | 0.32   | U    | ng/L  | P418277  |          |
|           |             | MGK-264             | 0.21   | U    | ng/L  | P418277  |          |
|           |             | Mirex               | 0.37   | U    | ng/L  | P418277  |          |
|           |             | Oxychlordane        | 0.32   | U    | ng/L  | P418277  |          |

Field ID: G2TLHR0015

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component                                            | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------------------------------------------|--------|------|-------|----------|----------|
| 2349703   | EPA 8270E   | Permethrin                                           | 1.7    | U    | ng/L  | P418277  |          |
|           |             | Phenothrin                                           | 0.96   | U    | ng/L  | P418277  |          |
|           |             | Piperonyl Butoxide                                   | 0.16   | U    | ng/L  | P418277  |          |
|           |             | Prallethrin                                          | 2.1    | U    | ng/L  | P418277  |          |
|           |             | Tau-Fluvalinate                                      | 0.27   | U    | ng/L  | P418277  |          |
|           |             | Tetramethrin                                         | 0.80   | U    | ng/L  | P418277  |          |
|           |             | Trans-Nonachlor                                      | 0.21   | U    | ng/L  | P418277  |          |
|           |             | Triclosan Methyl                                     | 0.16   | U    | ng/L  | P418277  |          |
|           |             | Trifluralin                                          | 0.21   | U    | ng/L  | P418277  |          |
|           |             | Chlordane                                            | 2.7    | UJ   | ng/L  | P418277  | SUR      |
| 2349704   | EPA 8270E   | Toxaphene                                            | 16     | UJ   | ng/L  | P418277  | SUR      |
|           |             | Oxybenzone**                                         | 10     | U    | ng/L  | P418168  |          |
|           |             | Acetochlor                                           | 0.26   | U    | ng/L  | P418168  |          |
|           |             | Octinoxate**                                         | 20     | U    | ng/L  | P418168  |          |
|           |             | Alachlor                                             | 0.26   | U    | ng/L  | P418168  |          |
|           |             | Avobenzone**                                         | 100    | U    | ng/L  | P418168  |          |
|           |             | Ametryn                                              | 0.61   | U    | ng/L  | P418168  |          |
|           |             | Atrazine                                             | 2.9    |      | ng/L  | P418168  |          |
|           |             | PBDE-47**                                            | 4.1    | U    | ng/L  | P418168  |          |
|           |             | Atrazine Desethyl                                    | 1.5    | U    | ng/L  | P418168  |          |
|           |             | PBDE-99**                                            | 5.1    | U    | ng/L  | P418168  |          |
|           |             | Azinphos Methyl                                      | 2.0    | U    | ng/L  | P418168  |          |
|           |             | Tri-o-cresyl Phosphate**                             | 6.1    | U    | ng/L  | P418168  |          |
|           |             | Azoxystrobin                                         | 3.3    | J    | ng/L  | P418168  |          |
|           |             | Bromacil                                             | 0.51   | U    | ng/L  | P418168  |          |
|           |             | 2-Ethylhexyl<br>2,3,4,5-tetrabromobenzoate (EHTBB)** | 12     | U    | ng/L  | P418168  |          |
|           |             | Butylate                                             | 0.41   | U    | ng/L  | P418168  |          |
|           |             | Dechlorane Plus**                                    | 31     | U    | ng/L  | P418168  |          |
|           |             | Caffeine**                                           | 7.7    | U    | ng/L  | P418168  |          |
|           |             | Carbophenothion                                      | 0.20   | U    | ng/L  | P418168  |          |
|           |             | Carfentrazone Ethyl                                  | 0.10   | U    | ng/L  | P418168  |          |
|           |             | Chlorfenapyr                                         | 0.18   | U    | ng/L  | P418168  |          |
|           |             | Chlorpyrifos Ethyl                                   | 0.26   | U    | ng/L  | P418168  |          |
|           |             | Chlorpyrifos Methyl                                  | 0.051  | U    | ng/L  | P418168  |          |
|           |             | Coumaphos                                            | 0.51   | U    | ng/L  | P418168  |          |
|           |             | Cyanazine                                            | 3.3    | U    | ng/L  | P418168  |          |
|           |             | Cyprodinil                                           | 0.10   | U    | ng/L  | P418168  |          |
|           |             | Demeton                                              | 1.5    | U    | ng/L  | P418168  |          |
|           |             | Diazinon                                             | 0.13   | U    | ng/L  | P418168  |          |
|           |             | Difenoconazole                                       | 0.61   | U    | ng/L  | P418168  |          |
|           |             | Dimethenamid                                         | 0.10   | U    | ng/L  | P418168  |          |
|           |             | Dimethomorph                                         | 0.18   | U    | ng/L  | P418168  |          |
|           |             | Disulfoton                                           | 0.51   | U    | ng/L  | P418168  |          |
|           |             | Dithiopyr                                            | 0.55   | IV   | ng/L  | P418168  |          |

Field ID: G2TLHR0015

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component             | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-----------------------|--------|------|-------|----------|----------|
| 2349704   | EPA 8270E   | EPTC                  | 1.3    | U    | ng/L  | P418168  |          |
|           |             | Ethion                | 0.15   | U    | ng/L  | P418168  |          |
|           |             | Ethoprop              | 0.10   | U    | ng/L  | P418168  |          |
|           |             | Etridiazole           | 0.15   | U    | ng/L  | P418168  | MS       |
|           |             | Fenamiphos            | 0.51   | U    | ng/L  | P418168  |          |
|           |             | Fenbuconazole         | 0.13   | U    | ng/L  | P418168  |          |
|           |             | Fipronil              | 0.26   | U    | ng/L  | P418168  |          |
|           |             | Fipronil Desulfinyl** | 0.13   | U    | ng/L  | P418168  |          |
|           |             | Fipronil Sulfide      | 0.15   | U    | ng/L  | P418168  |          |
|           |             | Fipronil Sulfone      | 0.15   | U    | ng/L  | P418168  |          |
|           |             | Fluazifop-P-butyl     | 0.10   | U    | ng/L  | P418168  |          |
|           |             | Fludioxonil           | 0.33   | I    | ng/L  | P418168  |          |
|           |             | Flumioxazin           | 1.8    | U    | ng/L  | P418168  |          |
|           |             | Flutolanil            | 2.1    |      | ng/L  | P418168  |          |
|           |             | Fluxapyroxad          | 1.5    |      | ng/L  | P418168  |          |
|           |             | Fonofos               | 0.20   | U    | ng/L  | P418168  |          |
|           |             | Hexazinone            | 0.51   | U    | ng/L  | P418168  |          |
|           |             | Imazalil              | 0.77   | U    | ng/L  | P418168  |          |
|           |             | Iprodione             | 0.61   | U    | ng/L  | P418168  |          |
|           |             | Loratadine**          | 0.10   | U    | ng/L  | P418168  |          |
|           |             | Malathion             | 0.36   | U    | ng/L  | P418168  |          |
|           |             | Metalaxyl             | 0.77   | U    | ng/L  | P418168  |          |
|           |             | Metolachlor           | 64     |      | ng/L  | P418168  |          |
|           |             | Metribuzin            | 54     |      | ng/L  | P418168  |          |
|           |             | Mevinphos             | 1.1    | U    | ng/L  | P418168  |          |
|           |             | Molinate              | 0.31   | U    | ng/L  | P418168  |          |
|           |             | Myclobutanil          | 0.26   | U    | ng/L  | P418168  |          |
|           |             | Naled                 | 1.5    | U    | ng/L  | P418168  | RPD      |
|           |             | Napropamide           | 0.41   | U    | ng/L  | P418168  |          |
|           |             | Norflurazon           | 0.51   | U    | ng/L  | P418168  |          |
|           |             | Oxadiazon             | 0.31   | U    | ng/L  | P418168  |          |
|           |             | Oxyfluorfen           | 0.15   | U    | ng/L  | P418168  |          |
|           |             | Parathion Ethyl       | 0.26   | U    | ng/L  | P418168  |          |
|           |             | Parathion Methyl      | 0.56   | U    | ng/L  | P418168  |          |
|           |             | Pendimethalin         | 1.0    | U    | ng/L  | P418168  |          |
|           |             | Phenytol**            | 3.6    | U    | ng/L  | P418168  | MS       |
|           |             | Phorate               | 0.54   | U    | ng/L  | P418168  |          |
|           |             | Prodiamine            | 0.18   | U    | ng/L  | P418168  |          |
|           |             | Prometon              | 0.92   | U    | ng/L  | P418168  |          |
|           |             | Prometryn             | 0.20   | U    | ng/L  | P418168  |          |
|           |             | Pronamide             | 0.15   | U    | ng/L  | P418168  |          |
|           |             | Propanil              | 0.13   | U    | ng/L  | P418168  |          |
|           |             | Propargite            | 1.5    | U    | ng/L  | P418168  |          |
|           |             | Propiconazole         | 0.51   | U    | ng/L  | P418168  |          |
|           |             | Pyraflufen Ethyl      | 0.26   | U    | ng/L  | P418168  |          |

Field ID: G2TLHR0015

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component     | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|---------------|--------|------|-------|----------|----------|
| 2349704   | EPA 8270E          | Pyridaben     | 0.46   | U    | ng/L  | P418168  |          |
|           |                    | Pyriproxyfen  | 0.13   | U    | ng/L  | P418168  |          |
|           |                    | Simazine      | 0.51   | U    | ng/L  | P418168  |          |
|           |                    | Stirophos     | 0.13   | U    | ng/L  | P418168  |          |
|           |                    | Sulfentrazone | 0.51   | U    | ng/L  | P418168  |          |
|           |                    | Tebuconazole  | 1.5    | I    | ng/L  | P418168  |          |
|           |                    | Terbufos      | 0.10   | U    | ng/L  | P418168  |          |
|           |                    | Terbutylazine | 0.43   | U    | ng/L  | P418168  |          |
|           |                    | Thiobencarb   | 0.61   | U    | ng/L  | P418168  |          |
|           |                    | Triadimefon   | 0.26   | U    | ng/L  | P418168  |          |
| 2349706   | EPA 200.7 Rev. 4.4 | Calcium       | 9.08   |      | mg/L  | P418215  |          |
|           |                    | Iron          | 900    |      | ug/L  | P418215  |          |
|           |                    | Magnesium     | 3.70   |      | mg/L  | P418215  |          |
|           |                    | Potassium     | 0.84   | I    | mg/L  | P418215  |          |
|           |                    | Sodium        | 2.6    |      | mg/L  | P418215  |          |
|           |                    | Strontium     | 25.3   |      | ug/L  | P418215  |          |
|           |                    | Tin           | 3.0    | U    | ug/L  | P418215  |          |
|           |                    | Titanium      | 19.6   |      | ug/L  | P418215  |          |
|           |                    | Vanadium      | 2.3    | I    | ug/L  | P418215  |          |
|           |                    | Zinc          | 5.0    | U    | ug/L  | P418215  |          |
|           | EPA 200.8 Rev. 5.4 | Aluminum      | 748    |      | ug/L  | P418215  |          |
|           |                    | Antimony      | 0.055  | I    | ug/L  | P418215  |          |
|           |                    | Arsenic       | 0.71   |      | ug/L  | P418215  |          |
|           |                    | Barium        | 27.5   |      | ug/L  | P418215  |          |
|           |                    | Beryllium     | 0.045  |      | ug/L  | P418215  |          |
|           |                    | Boron         | 13.8   |      | ug/L  | P418215  |          |
|           |                    | Cadmium       | 0.020  | U    | ug/L  | P418215  |          |
|           |                    | Chromium      | 0.78   | I    | ug/L  | P418215  |          |
|           |                    | Cobalt        | 0.200  |      | ug/L  | P418215  |          |
|           |                    | Copper        | 0.78   | I    | ug/L  | P418215  |          |
|           |                    | Lead          | 0.61   |      | ug/L  | P418215  |          |
|           |                    | Manganese     | 49.3   |      | ug/L  | P418215  |          |
|           |                    | Molybdenum    | 0.21   | I    | ug/L  | P418215  |          |
|           |                    | Nickel        | 0.50   | U    | ug/L  | P418215  |          |
|           |                    | Selenium      | 0.20   | U    | ug/L  | P418215  |          |
|           |                    | Silver        | 0.010  | U    | ug/L  | P418215  |          |
|           |                    | Thallium      | 0.10   | U    | ug/L  | P418215  |          |
|           | SM 2340 B-2011     | Hardness      | 37.9   |      | mg/L  | P418215  |          |

Ref. Method and Comment:

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8276: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for multiple parameters not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blank and the sample. Estimated value for azoxystrobin due to internal standard recovery exceeding control limits.

## Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418215

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Calcium   | 0.075  | U    | mg/L  |
| Iron      | 30     | U    | ug/L  |
| Magnesium | 0.040  | U    | mg/L  |
| Potassium | 0.30   | U    | mg/L  |
| Sodium    | 0.50   | U    | mg/L  |
| Strontium | 2.0    | U    | ug/L  |
| Tin       | 3.0    | U    | ug/L  |
| Titanium  | 0.75   | U    | ug/L  |
| Vanadium  | 2.0    | U    | ug/L  |
| Zinc      | 5.0    | U    | ug/L  |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418215

| Component  | Result | Code | Units |
|------------|--------|------|-------|
| Aluminum   | 5.0    | U    | ug/L  |
| Antimony   | 0.050  | U    | ug/L  |
| Arsenic    | 0.050  | U    | ug/L  |
| Barium     | 0.20   | U    | ug/L  |
| Beryllium  | 0.010  | U    | ug/L  |
| Boron      | 2.0    | U    | ug/L  |
| Cadmium    | 0.020  | U    | ug/L  |
| Chromium   | 0.40   | U    | ug/L  |
| Cobalt     | 0.020  | U    | ug/L  |
| Copper     | 0.40   | U    | ug/L  |
| Lead       | 0.20   | U    | ug/L  |
| Manganese  | 0.10   | U    | ug/L  |
| Molybdenum | 0.15   | U    | ug/L  |
| Nickel     | 0.50   | U    | ug/L  |
| Selenium   | 0.20   | U    | ug/L  |
| Silver     | 0.010  | U    | ug/L  |
| Thallium   | 0.10   | U    | ug/L  |

Reference Method: EPA 8270E

Batch ID: P418168

| Component                                       | Result | Code | Units |
|-------------------------------------------------|--------|------|-------|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 12     | U    | ng/L  |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 12     | U    | ng/L  |
| Acetochlor                                      | 0.25   | U    | ng/L  |
| Acetochlor                                      | 0.25   | U    | ng/L  |
| Alachlor                                        | 0.25   | U    | ng/L  |
| Alachlor                                        | 0.25   | U    | ng/L  |
| Ametryn                                         | 0.60   | U    | ng/L  |
| Ametryn                                         | 0.60   | U    | ng/L  |
| Atrazine                                        | 0.25   | U    | ng/L  |
| Atrazine                                        | 0.25   | U    | ng/L  |
| Atrazine Desethyl                               | 1.5    | U    | ng/L  |
| Atrazine Desethyl                               | 1.5    | U    | ng/L  |
| Avobenzone                                      | 100    | U    | ng/L  |
| Avobenzone                                      | 100    | U    | ng/L  |
| Azinphos Methyl                                 | 2.0    | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| Azinphos Methyl     | 2.0    | U    | ng/L  |
| Azoxystrobin        | 0.50   | U    | ng/L  |
| Azoxystrobin        | 0.50   | U    | ng/L  |
| Bromacil            | 0.50   | U    | ng/L  |
| Bromacil            | 0.50   | U    | ng/L  |
| Butylate            | 0.40   | U    | ng/L  |
| Butylate            | 0.40   | U    | ng/L  |
| Caffeine            | 7.5    | U    | ng/L  |
| Caffeine            | 7.5    | U    | ng/L  |
| Carbophenothion     | 0.20   | U    | ng/L  |
| Carbophenothion     | 0.20   | U    | ng/L  |
| Carfentrazone Ethyl | 0.10   | U    | ng/L  |
| Carfentrazone Ethyl | 0.10   | U    | ng/L  |
| Chlorfenapyr        | 0.18   | U    | ng/L  |
| Chlorfenapyr        | 0.18   | U    | ng/L  |
| Chlorpyrifos Ethyl  | 0.25   | U    | ng/L  |
| Chlorpyrifos Ethyl  | 0.25   | U    | ng/L  |
| Chlorpyrifos Methyl | 0.050  | U    | ng/L  |
| Chlorpyrifos Methyl | 0.050  | U    | ng/L  |
| Coumaphos           | 0.50   | U    | ng/L  |
| Coumaphos           | 0.50   | U    | ng/L  |
| Cyanazine           | 3.2    | U    | ng/L  |
| Cyanazine           | 3.2    | U    | ng/L  |
| Cyprodinil          | 0.10   | U    | ng/L  |
| Cyprodinil          | 0.10   | U    | ng/L  |
| Dechlorane Plus     | 30     | U    | ng/L  |
| Dechlorane Plus     | 30     | U    | ng/L  |
| Demeton             | 1.5    | U    | ng/L  |
| Demeton             | 1.5    | U    | ng/L  |
| Diazinon            | 0.12   | U    | ng/L  |
| Diazinon            | 0.12   | U    | ng/L  |
| Difenoconazole      | 0.60   | U    | ng/L  |
| Difenoconazole      | 0.60   | U    | ng/L  |
| Dimethenamid        | 0.10   | U    | ng/L  |
| Dimethenamid        | 0.10   | U    | ng/L  |
| Dimethomorph        | 0.18   | U    | ng/L  |
| Dimethomorph        | 0.18   | U    | ng/L  |
| Disulfoton          | 0.50   | U    | ng/L  |
| Disulfoton          | 0.50   | U    | ng/L  |
| Dithiopyr           | 0.61   | I    | ng/L  |
| Dithiopyr           | 0.18   | U    | ng/L  |
| EPTC                | 1.2    | U    | ng/L  |
| EPTC                | 1.2    | U    | ng/L  |
| Ethion              | 0.15   | U    | ng/L  |
| Ethion              | 0.15   | U    | ng/L  |
| Ethoprop            | 0.10   | U    | ng/L  |
| Ethoprop            | 0.10   | U    | ng/L  |
| Etridiazole         | 0.15   | U    | ng/L  |
| Etridiazole         | 0.15   | U    | ng/L  |
| Fenamiphos          | 0.50   | U    | ng/L  |
| Fenamiphos          | 0.50   | U    | ng/L  |
| Fenbuconazole       | 0.12   | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| Fenbuconazole       | 0.12   | U    | ng/L  |
| Fipronil            | 0.25   | U    | ng/L  |
| Fipronil            | 0.25   | U    | ng/L  |
| Fipronil Desulfinyl | 0.12   | U    | ng/L  |
| Fipronil Desulfinyl | 0.12   | U    | ng/L  |
| Fipronil Sulfide    | 0.15   | U    | ng/L  |
| Fipronil Sulfide    | 0.15   | U    | ng/L  |
| Fipronil Sulfone    | 0.15   | U    | ng/L  |
| Fipronil Sulfone    | 0.15   | U    | ng/L  |
| Fluazifop-P-butyl   | 0.10   | U    | ng/L  |
| Fluazifop-P-butyl   | 0.10   | U    | ng/L  |
| Fludioxonil         | 0.12   | U    | ng/L  |
| Fludioxonil         | 0.12   | U    | ng/L  |
| Flumioxazin         | 1.8    | U    | ng/L  |
| Flumioxazin         | 1.8    | U    | ng/L  |
| Flutolanil          | 0.10   | U    | ng/L  |
| Flutolanil          | 0.10   | U    | ng/L  |
| Fluxapyroxad        | 0.10   | U    | ng/L  |
| Fluxapyroxad        | 0.10   | U    | ng/L  |
| Fonofos             | 0.20   | U    | ng/L  |
| Fonofos             | 0.20   | U    | ng/L  |
| Hexazinone          | 0.50   | U    | ng/L  |
| Hexazinone          | 0.50   | U    | ng/L  |
| Imazalil            | 0.75   | U    | ng/L  |
| Imazalil            | 0.75   | U    | ng/L  |
| Iprodione           | 0.60   | U    | ng/L  |
| Iprodione           | 0.60   | U    | ng/L  |
| Loratadine          | 0.10   | U    | ng/L  |
| Loratadine          | 0.10   | U    | ng/L  |
| Malathion           | 0.35   | U    | ng/L  |
| Malathion           | 0.35   | U    | ng/L  |
| Metaxyl             | 0.75   | U    | ng/L  |
| Metaxyl             | 0.75   | U    | ng/L  |
| Metolachlor         | 0.35   | U    | ng/L  |
| Metolachlor         | 0.35   | U    | ng/L  |
| Metribuzin          | 2.5    | U    | ng/L  |
| Metribuzin          | 2.5    | U    | ng/L  |
| Mevinphos           | 1.0    | U    | ng/L  |
| Mevinphos           | 1.0    | U    | ng/L  |
| Molinate            | 0.30   | U    | ng/L  |
| Molinate            | 0.30   | U    | ng/L  |
| Myclobutanil        | 0.25   | U    | ng/L  |
| Myclobutanil        | 0.25   | U    | ng/L  |
| Naled               | 1.5    | U    | ng/L  |
| Naled               | 1.5    | U    | ng/L  |
| Napropamide         | 0.40   | U    | ng/L  |
| Napropamide         | 0.40   | U    | ng/L  |
| Norflurazon         | 0.50   | U    | ng/L  |
| Norflurazon         | 0.50   | U    | ng/L  |
| Octinoxate          | 20     | U    | ng/L  |
| Octinoxate          | 20     | U    | ng/L  |
| Oxadiazon           | 0.30   | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

| Component        | Result | Code | Units |
|------------------|--------|------|-------|
| Oxadiazon        | 0.30   | U    | ng/L  |
| Oxybenzone       | 10     | U    | ng/L  |
| Oxybenzone       | 10     | U    | ng/L  |
| Oxyfluorfen      | 0.15   | U    | ng/L  |
| Oxyfluorfen      | 0.15   | U    | ng/L  |
| Parathion Ethyl  | 0.25   | U    | ng/L  |
| Parathion Ethyl  | 0.25   | U    | ng/L  |
| Parathion Methyl | 0.55   | U    | ng/L  |
| Parathion Methyl | 0.55   | U    | ng/L  |
| PBDE-47          | 4.0    | U    | ng/L  |
| PBDE-47          | 4.0    | U    | ng/L  |
| PBDE-99          | 5.0    | U    | ng/L  |
| PBDE-99          | 5.0    | U    | ng/L  |
| Pendimethalin    | 1.0    | U    | ng/L  |
| Pendimethalin    | 1.0    | U    | ng/L  |
| Phenytol         | 3.5    | U    | ng/L  |
| Phenytol         | 3.5    | U    | ng/L  |
| Phorate          | 0.52   | U    | ng/L  |
| Phorate          | 0.52   | U    | ng/L  |
| Prodiatone       | 0.18   | U    | ng/L  |
| Prodiatone       | 0.18   | U    | ng/L  |
| Prometon         | 0.90   | U    | ng/L  |
| Prometon         | 0.90   | U    | ng/L  |
| Prometryn        | 0.20   | U    | ng/L  |
| Prometryn        | 0.20   | U    | ng/L  |
| Pronamide        | 0.15   | U    | ng/L  |
| Pronamide        | 0.15   | U    | ng/L  |
| Propanil         | 0.12   | U    | ng/L  |
| Propanil         | 0.12   | U    | ng/L  |
| Propargite       | 1.5    | U    | ng/L  |
| Propargite       | 1.5    | U    | ng/L  |
| Propiconazole    | 0.50   | U    | ng/L  |
| Propiconazole    | 0.50   | U    | ng/L  |
| Pyraflufen Ethyl | 0.25   | U    | ng/L  |
| Pyraflufen Ethyl | 0.25   | U    | ng/L  |
| Pyridaben        | 0.45   | U    | ng/L  |
| Pyridaben        | 0.45   | U    | ng/L  |
| Pyriproxyfen     | 0.12   | U    | ng/L  |
| Pyriproxyfen     | 0.12   | U    | ng/L  |
| Simazine         | 0.50   | U    | ng/L  |
| Simazine         | 0.50   | U    | ng/L  |
| Stirophos        | 0.12   | U    | ng/L  |
| Stirophos        | 0.12   | U    | ng/L  |
| Sulfentrazone    | 0.50   | U    | ng/L  |
| Sulfentrazone    | 0.50   | U    | ng/L  |
| Tebuconazole     | 0.50   | U    | ng/L  |
| Tebuconazole     | 0.50   | U    | ng/L  |
| Terbufos         | 0.10   | U    | ng/L  |
| Terbufos         | 0.10   | U    | ng/L  |
| Terbutylazine    | 0.42   | U    | ng/L  |
| Terbutylazine    | 0.42   | U    | ng/L  |
| Thiobencarb      | 0.60   | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418168

| Component              | Result | Code | Units |
|------------------------|--------|------|-------|
| Thiobencarb            | 0.60   | U    | ng/L  |
| Tri-o-cresyl Phosphate | 6.0    | U    | ng/L  |
| Tri-o-cresyl Phosphate | 6.0    | U    | ng/L  |
| Triadimefon            | 0.25   | U    | ng/L  |
| Triadimefon            | 0.25   | U    | ng/L  |

Reference Method: EPA 8270E

Batch ID: P418277

| Component          | Result | Code | Units |
|--------------------|--------|------|-------|
| Aldrin             | 0.65   | U    | ng/L  |
| Aldrin             | 0.65   | U    | ng/L  |
| Alpha-BHC          | 0.10   | U    | ng/L  |
| Alpha-BHC          | 0.10   | U    | ng/L  |
| Alpha-Chlordane    | 0.20   | U    | ng/L  |
| Alpha-Chlordane    | 0.20   | U    | ng/L  |
| Beta-BHC           | 0.10   | U    | ng/L  |
| Beta-BHC           | 0.10   | U    | ng/L  |
| Beta-Cyfluthrin    | 1.2    | U    | ng/L  |
| Beta-Cyfluthrin    | 1.2    | U    | ng/L  |
| Bifenthrin         | 0.50   | U    | ng/L  |
| Bifenthrin         | 0.50   | U    | ng/L  |
| Chlorothalonil     | 1.2    | U    | ng/L  |
| Chlorothalonil     | 1.2    | U    | ng/L  |
| Cis-Nonachlor      | 0.20   | U    | ng/L  |
| Cis-Nonachlor      | 0.20   | U    | ng/L  |
| Cypermethrin       | 1.5    | U    | ng/L  |
| Cypermethrin       | 1.5    | U    | ng/L  |
| Dacthal            | 0.15   | U    | ng/L  |
| Dacthal            | 0.15   | U    | ng/L  |
| DDD-p,p'           | 0.25   | U    | ng/L  |
| DDD-p,p'           | 0.25   | U    | ng/L  |
| DDE-p,p'           | 0.20   | U    | ng/L  |
| DDE-p,p'           | 0.20   | U    | ng/L  |
| DDT-p,p'           | 0.25   | U    | ng/L  |
| DDT-p,p'           | 0.25   | U    | ng/L  |
| Delta-BHC          | 0.40   | U    | ng/L  |
| Delta-BHC          | 0.40   | U    | ng/L  |
| Deltamethrin       | 1.2    | U    | ng/L  |
| Deltamethrin       | 1.2    | U    | ng/L  |
| Dichlobenil        | 0.25   | U    | ng/L  |
| Dichlobenil        | 0.25   | U    | ng/L  |
| Dicofol            | 1.2    | U    | ng/L  |
| Dicofol            | 1.2    | U    | ng/L  |
| Dieldrin           | 0.40   | U    | ng/L  |
| Dieldrin           | 0.40   | U    | ng/L  |
| Endosulfan I       | 0.40   | U    | ng/L  |
| Endosulfan I       | 0.40   | U    | ng/L  |
| Endosulfan II      | 0.40   | U    | ng/L  |
| Endosulfan II      | 0.40   | U    | ng/L  |
| Endosulfan Sulfate | 0.30   | U    | ng/L  |
| Endosulfan Sulfate | 0.30   | U    | ng/L  |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418277

| Component          | Result | Code | Units |
|--------------------|--------|------|-------|
| Endrin             | 0.40   | U    | ng/L  |
| Endrin             | 0.40   | U    | ng/L  |
| Endrin Aldehyde    | 0.75   | U    | ng/L  |
| Endrin Aldehyde    | 0.75   | U    | ng/L  |
| Endrin Ketone      | 0.40   | U    | ng/L  |
| Endrin Ketone      | 0.40   | U    | ng/L  |
| Esfenvalerate      | 0.75   | U    | ng/L  |
| Esfenvalerate      | 0.75   | U    | ng/L  |
| Ethalfuralin       | 0.15   | U    | ng/L  |
| Ethalfuralin       | 0.15   | U    | ng/L  |
| Fenpropathrin      | 0.25   | U    | ng/L  |
| Fenpropathrin      | 0.25   | U    | ng/L  |
| Gamma-BHC          | 0.12   | U    | ng/L  |
| Gamma-BHC          | 0.12   | U    | ng/L  |
| Gamma-Chlordane    | 0.20   | U    | ng/L  |
| Gamma-Chlordane    | 0.20   | U    | ng/L  |
| Heptachlor         | 0.20   | U    | ng/L  |
| Heptachlor         | 0.20   | U    | ng/L  |
| Heptachlor Epoxide | 0.25   | U    | ng/L  |
| Heptachlor Epoxide | 0.25   | U    | ng/L  |
| Hexachlorobenzene  | 1.0    | U    | ng/L  |
| Hexachlorobenzene  | 1.0    | U    | ng/L  |
| Kepone             | 5.0    | U    | ng/L  |
| Kepone             | 5.0    | U    | ng/L  |
| Lambda-Cyhalothrin | 0.75   | U    | ng/L  |
| Lambda-Cyhalothrin | 0.75   | U    | ng/L  |
| Methoprene         | 0.75   | U    | ng/L  |
| Methoprene         | 0.75   | U    | ng/L  |
| Methoxychlor       | 0.30   | U    | ng/L  |
| Methoxychlor       | 0.30   | U    | ng/L  |
| MGK-264            | 0.20   | U    | ng/L  |
| MGK-264            | 0.20   | U    | ng/L  |
| Mirex              | 0.35   | U    | ng/L  |
| Mirex              | 0.35   | U    | ng/L  |
| Oxychlordane       | 0.30   | U    | ng/L  |
| Oxychlordane       | 0.30   | U    | ng/L  |
| PCB-1016           | 2.0    | U    | ng/L  |
| PCB-1016           | 2.0    | U    | ng/L  |
| PCB-1221           | 2.0    | U    | ng/L  |
| PCB-1221           | 2.0    | U    | ng/L  |
| PCB-1232           | 2.0    | U    | ng/L  |
| PCB-1232           | 2.0    | U    | ng/L  |
| PCB-1242           | 2.0    | U    | ng/L  |
| PCB-1242           | 2.0    | U    | ng/L  |
| PCB-1248           | 2.0    | U    | ng/L  |
| PCB-1248           | 2.0    | U    | ng/L  |
| PCB-1254           | 2.0    | U    | ng/L  |
| PCB-1254           | 2.0    | U    | ng/L  |
| PCB-1260           | 2.0    | U    | ng/L  |
| PCB-1260           | 2.0    | U    | ng/L  |
| Permethrin         | 1.6    | U    | ng/L  |
| Permethrin         | 1.6    | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418277

| Component          | Result | Code | Units |
|--------------------|--------|------|-------|
| Phenothrin         | 0.90   | U    | ng/L  |
| Phenothrin         | 0.90   | U    | ng/L  |
| Piperonyl Butoxide | 0.15   | U    | ng/L  |
| Piperonyl Butoxide | 0.15   | U    | ng/L  |
| Prallethrin        | 2.0    | U    | ng/L  |
| Prallethrin        | 2.0    | U    | ng/L  |
| Tau-Fluvalinate    | 0.25   | U    | ng/L  |
| Tau-Fluvalinate    | 0.25   | U    | ng/L  |
| Tetramethrin       | 0.75   | U    | ng/L  |
| Tetramethrin       | 0.75   | U    | ng/L  |
| Trans-Nonachlor    | 0.20   | U    | ng/L  |
| Trans-Nonachlor    | 0.20   | U    | ng/L  |
| Triclosan Methyl   | 0.15   | U    | ng/L  |
| Triclosan Methyl   | 0.15   | U    | ng/L  |
| Trifluralin        | 0.20   | U    | ng/L  |
| Trifluralin        | 0.20   | U    | ng/L  |

Reference Method: EPA 8276

Batch ID: P418277

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Chlordane | 2.5    | U    | ng/L  |
| Chlordane | 2.5    | U    | ng/L  |
| Toxaphene | 15     | U    | ng/L  |
| Toxaphene | 15     | U    | ng/L  |

Reference Method: EPA 8321B

Batch ID: P418169

| Component        | Result  | Code | Units |
|------------------|---------|------|-------|
| 2,4-D            | 0.0020  | U    | ug/L  |
| 2,4,5-T          | 0.0040  | U    | ug/L  |
| Acetaminophen    | 0.0080  | U    | ug/L  |
| Acetamiprid      | 0.0020  | U    | ug/L  |
| Afidopyropen     | 0.0020  | U    | ug/L  |
| Bentazon         | 8.0E-04 | U    | ug/L  |
| Benzovindiflupyr | 0.0020  | U    | ug/L  |
| Carbamazepine    | 8.0E-04 | U    | ug/L  |
| Clothianidin     | 0.0020  | U    | ug/L  |
| Dinotefuran      | 0.0020  | U    | ug/L  |
| Diuron           | 0.0020  | U    | ug/L  |
| Fenuron          | 0.032   | U    | ug/L  |
| Fluridone        | 8.0E-04 | U    | ug/L  |
| Hydrocodone      | 0.0020  | U    | ug/L  |
| Ibuprofen        | 0.080   | U    | ug/L  |
| Imazapyr         | 0.0040  | U    | ug/L  |
| Imidacloprid     | 0.0020  | U    | ug/L  |
| Linuron          | 0.0040  | U    | ug/L  |
| Mandestrobin     | 0.0020  | U    | ug/L  |
| MCPP             | 0.0040  | U    | ug/L  |
| Naproxen         | 0.0080  | U    | ug/L  |
| Primidone        | 0.0040  | U    | ug/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8321B

Batch ID: P418169

| Component      | Result | Code | Units |
|----------------|--------|------|-------|
| Pyraclostrobin | 0.0020 | U    | ug/L  |
| Silvex         | 0.0040 | U    | ug/L  |
| Thiamethoxam   | 0.0020 | U    | ug/L  |
| Tolfenpyrad    | 0.0020 | U    | ug/L  |
| Triclopyr      | 0.0040 | U    | ug/L  |

Reference Method: EPA 8321B

Batch ID: P418300

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Acesulfame K | 0.10   | U    | ug/L  |
| AMPA         | 0.10   | U    | ug/L  |
| Endothall    | 0.25   | U    | ug/L  |
| Glufosinate  | 0.10   | U    | ug/L  |
| Glyphosate   | 0.10   | U    | ug/L  |
| Sucralose    | 0.010  | U    | ug/L  |

Reference Method: EPA 8321B

Batch ID: P418426

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| 3-Hydroxycarbofuran | 0.0020 | U    | ug/L  |
| Aldicarb            | 0.020  | U    | ug/L  |
| Aldicarb Sulfone    | 0.0020 | U    | ug/L  |
| Aldicarb Sulfoxide  | 0.0020 | U    | ug/L  |
| Carbaryl            | 0.0020 | U    | ug/L  |
| Carbofuran          | 0.0020 | U    | ug/L  |
| Methiocarb          | 0.0020 | U    | ug/L  |
| Methomyl            | 0.0020 | U    | ug/L  |
| Oxamyl              | 0.0020 | U    | ug/L  |
| Propoxur            | 0.0020 | U    | ug/L  |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418215

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Calcium   | 93.0    |         | P         | 80 - 120       |
| Iron      | 96.7    |         | P         | 80 - 120       |
| Magnesium | 95.9    |         | P         | 80 - 120       |
| Potassium | 96.2    |         | P         | 80 - 120       |
| Sodium    | 93.3    |         | P         | 80 - 120       |
| Strontium | 98.3    |         | P         | 80 - 120       |
| Tin       | 96.0    |         | P         | 80 - 120       |
| Titanium  | 97.5    |         | P         | 80 - 120       |
| Vanadium  | 96.8    |         | P         | 80 - 120       |
| Zinc      | 96.5    |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418215

| Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------|---------|---------|-----------|----------------|
| Aluminum   | 102     |         | P         | 85 - 115       |
| Antimony   | 106     |         | P         | 85 - 115       |
| Arsenic    | 103     |         | P         | 85 - 115       |
| Barium     | 108     |         | P         | 85 - 115       |
| Beryllium  | 97.0    |         | P         | 85 - 115       |
| Boron      | 98.7    |         | P         | 85 - 115       |
| Cadmium    | 103     |         | P         | 85 - 115       |
| Chromium   | 103     |         | P         | 85 - 115       |
| Cobalt     | 101     |         | P         | 85 - 115       |
| Copper     | 99.4    |         | P         | 85 - 115       |
| Lead       | 97.1    |         | P         | 85 - 115       |
| Manganese  | 104     |         | P         | 85 - 115       |
| Molybdenum | 101     |         | P         | 85 - 115       |
| Nickel     | 101     |         | P         | 85 - 115       |
| Selenium   | 103     |         | P         | 85 - 115       |
| Silver     | 102     |         | P         | 85 - 115       |
| Thallium   | 98.5    |         | P         | 85 - 115       |

Reference Method: EPA 8270E

Batch ID: P418168

| Component                                       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------------------------------------|---------|---------|-----------|----------------|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 94.1    |         | P         | 50 - 150       |
| Acetochlor                                      | 90.4    |         | P         | 70 - 121       |
| Alachlor                                        | 82.5    |         | P         | 68 - 119       |
| Ametryn                                         | 93.7    |         | P         | 64 - 139       |
| Atrazine                                        | 90.5    |         | P         | 76 - 120       |
| Atrazine Desethyl                               | 63.5    |         | P         | 44 - 126       |
| Avobenzone                                      | 88.9    |         | P         | 76 - 212       |
| Azinphos Methyl                                 | 98.1    |         | P         | 43 - 192       |
| Azoxystrobin                                    | 97.1    |         | P         | 36 - 224       |
| Bromacil                                        | 79.4    |         | P         | 52 - 121       |
| Butylate                                        | 37.2    |         | P         | 28 - 91.0      |
| Caffeine                                        | 83.4    |         | P         | 50 - 134       |
| Carbophenothion                                 | 81.2    |         | P         | 56 - 129       |
| Carfentrazone Ethyl                             | 89.9    |         | P         | 60 - 141       |
| Chlorfenapyr                                    | 85.8    |         | P         | 56 - 115       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418168

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Chlorpyrifos Ethyl  | 88.8    |         | P         | 60 - 118       |
| Chlorpyrifos Methyl | 92.7    |         | P         | 68 - 119       |
| Coumaphos           | 87.5    |         | P         | 18 - 250       |
| Cyanazine           | 82.6    |         | P         | 61 - 250       |
| Cyprodinil          | 85.1    |         | P         | 55 - 145       |
| Dechlorane Plus     | 112     |         | P         | 50 - 150       |
| Demeton             | 69.5    |         | P         | 30 - 159       |
| Diazinon            | 84.5    |         | P         | 70 - 123       |
| Difenoconazole      | 102     |         | P         | 49 - 204       |
| Dimethenamid        | 70.5    |         | P         | 64 - 115       |
| Dimethomorph        | 83.7    |         | P         | 12 - 219       |
| Disulfoton          | 81.9    |         | P         | 44 - 125       |
| Dithiopyr           | 92.5    |         | P         | 64 - 115       |
| EPTC                | 33.9    |         | P         | 28 - 86.0      |
| Ethion              | 91.8    |         | P         | 33 - 125       |
| Ethoprop            | 72.6    |         | P         | 64 - 116       |
| Etridiazole         | 38.7    |         | P         | 34 - 91.0      |
| Fenamiphos          | 86.6    |         | P         | 12 - 127       |
| Fenbuconazole       | 89.1    |         | P         | 59 - 151       |
| Fipronil            | 86.5    |         | P         | 67 - 129       |
| Fipronil Desulfinyl | 94.5    |         | P         | 65 - 127       |
| Fipronil Sulfide    | 81.5    |         | P         | 61 - 116       |
| Fipronil Sulfone    | 76.8    |         | P         | 55 - 117       |
| Fluazifop-P-butyl   | 90.9    |         | P         | 62 - 127       |
| Fludioxonil         | 81.1    |         | P         | 62 - 128       |
| Flumioxazin         | 106     |         | P         | 33 - 250       |
| Flutolanil          | 86.7    |         | P         | 56 - 127       |
| Fluxapyroxad        | 80.1    |         | P         | 45 - 128       |
| Fonofos             | 79.1    |         | P         | 62 - 111       |
| Hexazinone          | 84.4    |         | P         | 46 - 139       |
| Imazalil            | 77.3    |         | P         | 38 - 142       |
| Iprodione           | 85.2    |         | P         | 47 - 135       |
| Loratadine          | 80.4    |         | P         | 10 - 244       |
| Malathion           | 98.1    |         | P         | 61 - 139       |
| Metaxyl             | 83.8    |         | P         | 10 - 119       |
| Metolachlor         | 81.4    |         | P         | 65 - 118       |
| Metribuzin          | 96.3    |         | P         | 51 - 250       |
| Mevinphos           | 64.0    |         | P         | 53 - 121       |
| Molinate            | 48.9    |         | P         | 42 - 96.0      |
| Myclobutanil        | 87.2    |         | P         | 55 - 128       |
| Naled               | 75.7    |         | P         | 10 - 98.0      |
| Napropamide         | 76.7    |         | P         | 49 - 121       |
| Norflurazon         | 77.8    |         | P         | 61 - 126       |
| Octinoxate          | 91.3    |         | P         | 30 - 159       |
| Oxadiazon           | 71.7    |         | P         | 59 - 116       |
| Oxybenzone          | 82.7    |         | P         | 61 - 139       |
| Oxyfluorfen         | 98.7    |         | P         | 64 - 137       |
| Parathion Ethyl     | 90.6    |         | P         | 70 - 112       |
| Parathion Methyl    | 98.7    |         | P         | 76 - 133       |
| PBDE-47             | 91.9    |         | P         | 50 - 150       |
| PBDE-99             | 95.6    |         | P         | 50 - 150       |
| Pendimethalin       | 94.0    |         | P         | 52 - 117       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418168

| Component              | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------------|---------|---------|-----------|----------------|
| Phenytoin              | 49.2    |         | P         | 10 - 199       |
| Phorate                | 68.0    |         | P         | 48 - 121       |
| Prodiamine             | 42.3    |         | P         | 26 - 142       |
| Prometon               | 75.0    |         | P         | 43 - 123       |
| Prometryn              | 81.6    |         | P         | 66 - 127       |
| Pronamide              | 93.2    |         | P         | 75 - 121       |
| Propanil               | 83.7    |         | P         | 45 - 150       |
| Propargite             | 76.4    |         | P         | 42 - 208       |
| Propiconazole          | 77.6    |         | P         | 60 - 125       |
| Pyraflufen Ethyl       | 77.9    |         | P         | 70 - 138       |
| Pyridaben              | 91.4    |         | P         | 35 - 245       |
| Pyriproxyfen           | 81.9    |         | P         | 30 - 149       |
| Simazine               | 84.2    |         | P         | 72 - 125       |
| Stirophos              | 80.2    |         | P         | 29 - 164       |
| Sulfentrazone          | 70.8    |         | P         | 21 - 139       |
| Tebuconazole           | 65.7    |         | P         | 10 - 115       |
| Terbufos               | 93.7    |         | P         | 60 - 123       |
| Terbutylazine          | 85.6    |         | P         | 72 - 115       |
| Thiobencarb            | 80.6    |         | P         | 31 - 139       |
| Tri-o-cresyl Phosphate | 91.8    |         | P         | 50 - 150       |
| Triadimefon            | 85.3    |         | P         | 65 - 116       |

Reference Method: EPA 8270E

Batch ID: P418277

| Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------------|---------|---------|-----------|----------------|
| Aldrin             | 44.2    |         | P         | 10 - 92.0      |
| Alpha-BHC          | 93.9    |         | P         | 75 - 107       |
| Alpha-Chlordane    | 72.7    |         | P         | 50 - 108       |
| Beta-BHC           | 116     |         | P         | 36 - 138       |
| Beta-Cyfluthrin    | 71.2    |         | P         | 20 - 161       |
| Bifenthrin         | 50.7    |         | P         | 10 - 119       |
| Chlorothalonil     | 71.3    |         | P         | 26 - 186       |
| Cis-Nonachlor      | 74.2    |         | P         | 42 - 119       |
| Cypermethrin       | 73.6    |         | P         | 22 - 150       |
| Dacthal            | 89.9    |         | P         | 72 - 119       |
| DDD-p,p'           | 68.0    |         | P         | 45 - 107       |
| DDE-p,p'           | 67.7    |         | P         | 48 - 106       |
| DDT-p,p'           | 69.0    |         | P         | 48 - 110       |
| Delta-BHC          | 118     |         | P         | 54 - 140       |
| Deltamethrin       | 77.2    |         | P         | 22 - 189       |
| Dichlobenil        | 93.2    |         | P         | 36 - 117       |
| Dicofol            | 72.2    |         | P         | 46 - 155       |
| Dieldrin           | 75.9    |         | P         | 54 - 110       |
| Endosulfan I       | 76.0    |         | P         | 59 - 105       |
| Endosulfan II      | 74.9    |         | P         | 51 - 118       |
| Endosulfan Sulfate | 90.8    |         | P         | 57 - 121       |
| Endrin             | 75.0    |         | P         | 10 - 120       |
| Endrin Aldehyde    | 83.7    |         | P         | 34 - 118       |
| Endrin Ketone      | 87.8    |         | P         | 69 - 177       |
| Esfenvalerate      | 71.0    |         | P         | 23 - 168       |
| Ethalfuralin       | 70.2    |         | P         | 49 - 99.0      |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418277

| Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------------|---------|---------|-----------|----------------|
| Fenpropathrin      | 99.0    |         | P         | 34 - 117       |
| Gamma-BHC          | 95.3    |         | P         | 72 - 117       |
| Gamma-Chlordane    | 69.6    |         | P         | 43 - 106       |
| Heptachlor         | 63.5    |         | P         | 41 - 98.0      |
| Heptachlor Epoxide | 76.4    |         | P         | 57 - 106       |
| Hexachlorobenzene  | 73.2    |         | P         | 36 - 99.0      |
| Kepone             | 123     |         | P         | 16 - 215       |
| Lambda-Cyhalothrin | 62.9    |         | P         | 21 - 177       |
| Methoprene         | 64.4    |         | P         | 10 - 119       |
| Methoxychlor       | 68.1    |         | P         | 60 - 112       |
| MGK-264            | 80.5    |         | P         | 26 - 122       |
| Mirex              | 52.2    |         | P         | 10 - 169       |
| Oxychlordane       | 72.2    |         | P         | 43 - 105       |
| PCB-1016           | 74.3    |         | P         | 48 - 112       |
| PCB-1260           | 72.3    |         | P         | 44 - 118       |
| Permethrin         | 72.5    |         | P         | 24 - 148       |
| Phenothrin         | 50.3    |         | P         | 10 - 106       |
| Piperonyl Butoxide | 95.7    |         | P         | 10 - 139       |
| Prallethrin        | 64.2    |         | P         | 17 - 109       |
| Tau-Fluvalinate    | 63.8    |         | P         | 13 - 131       |
| Tetramethrin       | 73.7    |         | P         | 10 - 132       |
| Trans-Nonachlor    | 77.2    |         | P         | 44 - 106       |
| Triclosan Methyl   | 76.3    |         | P         | 59 - 109       |
| Trifluralin        | 71.2    |         | P         | 44 - 101       |

Reference Method: EPA 8276

Batch ID: P418277

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chlordane | 79.5    |         | P         | 61 - 116       |
| Toxaphene | 84.3    |         | P         | 48 - 124       |

Reference Method: EPA 8321B

Batch ID: P418169

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| 2,4-D            | 112     |         | P         | 40 - 150       |
| 2,4,5-T          | 94.3    |         | P         | 40 - 150       |
| Acetaminophen    | 93.8    |         | P         | 30 - 150       |
| Acetamiprid      | 105     |         | P         | 40 - 150       |
| Afidopyropen     | 89.4    |         | P         | 30 - 150       |
| Bentazon         | 106     |         | P         | 30 - 150       |
| Benzovindiflupyr | 96.9    |         | P         | 40 - 150       |
| Carbamazepine    | 82.2    |         | P         | 40 - 150       |
| Clothianidin     | 101     |         | P         | 40 - 150       |
| Dinotefuran      | 104     |         | P         | 40 - 150       |
| Diuron           | 98.3    |         | P         | 40 - 150       |
| Fenuron          | 115     |         | P         | 40 - 150       |
| Fluridone        | 104     |         | P         | 40 - 150       |
| Hydrocodone      | 120     |         | P         | 40 - 150       |
| Ibuprofen        | 96.9    |         | P         | 40 - 150       |
| Imazapyr         | 112     |         | P         | 40 - 150       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B  
Batch ID: P418169

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Imidacloprid   | 91.4    |         | P         | 40 - 150       |
| Linuron        | 105     |         | P         | 40 - 150       |
| Mandestrobin   | 113     |         | P         | 40 - 150       |
| MCPPP          | 119     |         | P         | 40 - 150       |
| Naproxen       | 144     |         | P         | 40 - 150       |
| Primidone      | 83.6    |         | P         | 40 - 150       |
| Pyraclostrobin | 97.8    |         | P         | 40 - 150       |
| Silvex         | 107     |         | P         | 40 - 150       |
| Thiamethoxam   | 114     |         | P         | 40 - 150       |
| Tolfenpyrad    | 85.3    |         | P         | 30 - 150       |
| Triclopyr      | 81.1    |         | P         | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P418300

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 93.5    |         | P         | 40 - 150       |
| AMPA         | 111     |         | P         | 40 - 150       |
| Endothall    | 108     |         | P         | 40 - 150       |
| Glufosinate  | 117     |         | P         | 40 - 150       |
| Glyphosate   | 109     |         | P         | 40 - 150       |
| Sucralose    | 107     |         | P         | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P418426

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| 3-Hydroxycarbofuran | 84.9    |         | P         | 40 - 150       |
| Aldicarb            | 62.2    |         | P         | 30 - 150       |
| Aldicarb Sulfone    | 92.3    |         | P         | 40 - 150       |
| Aldicarb Sulfoxide  | 86.8    |         | P         | 40 - 150       |
| Carbaryl            | 86.0    |         | P         | 40 - 150       |
| Carbofuran          | 77.9    |         | P         | 40 - 150       |
| Methiocarb          | 73.8    |         | P         | 40 - 150       |
| Methomyl            | 82.3    |         | P         | 40 - 150       |
| Oxamyl              | 91.7    |         | P         | 40 - 150       |
| Propoxur            | 90.7    |         | P         | 40 - 150       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418215

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2349420       | Calcium   | 98.8    |         | P         | 80 - 120       |
| 2349420       | Iron      | 104     | 104     | P/P       | 80 - 120       |
| 2349420       | Magnesium | 104     | 103     | P/P       | 80 - 120       |
| 2349420       | Potassium | 101     | 104     | P/P       | 80 - 120       |
| 2349420       | Sodium    | 97.4    |         | P         | 80 - 120       |
| 2349420       | Strontium | 103     | 106     | P/P       | 80 - 120       |
| 2349420       | Tin       | 100     | 103     | P/P       | 80 - 120       |
| 2349420       | Titanium  | 101     | 105     | P/P       | 80 - 120       |
| 2349420       | Vanadium  | 102     | 104     | P/P       | 80 - 120       |
| 2349420       | Zinc      | 101     | 102     | P/P       | 80 - 120       |
| 2349422       | Calcium   | 97.7    |         | P         | 80 - 120       |
| 2349422       | Iron      | 101     |         | P         | 80 - 120       |
| 2349422       | Magnesium | 97.8    |         | P         | 80 - 120       |
| 2349422       | Potassium | 98.9    |         | P         | 80 - 120       |
| 2349422       | Sodium    | 96.9    |         | P         | 80 - 120       |
| 2349422       | Strontium | 102     |         | P         | 80 - 120       |
| 2349422       | Tin       | 98.9    |         | P         | 80 - 120       |
| 2349422       | Titanium  | 100     |         | P         | 80 - 120       |
| 2349422       | Vanadium  | 102     |         | P         | 80 - 120       |
| 2349422       | Zinc      | 98.5    |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418215

| Spiked Sample | Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2349420       | Aluminum   | 111     | 113     | P/P       | 80 - 120       |
| 2349420       | Antimony   | 107     | 105     | P/P       | 80 - 120       |
| 2349420       | Arsenic    | 103     | 102     | P/P       | 80 - 120       |
| 2349420       | Barium     | 110     | 106     | P/P       | 80 - 120       |
| 2349420       | Beryllium  | 98.6    | 96.8    | P/P       | 80 - 120       |
| 2349420       | Boron      | 107     | 105     | P/P       | 80 - 120       |
| 2349420       | Cadmium    | 102     | 99.7    | P/P       | 80 - 120       |
| 2349420       | Chromium   | 106     | 104     | P/P       | 80 - 120       |
| 2349420       | Cobalt     | 100     | 98.6    | P/P       | 80 - 120       |
| 2349420       | Copper     | 98.7    | 97.0    | P/P       | 80 - 120       |
| 2349420       | Lead       | 98.9    | 97.7    | P/P       | 80 - 120       |
| 2349420       | Manganese  | 117     | 109     | P/P       | 80 - 120       |
| 2349420       | Molybdenum | 102     | 102     | P/P       | 80 - 120       |
| 2349420       | Nickel     | 101     | 98.9    | P/P       | 80 - 120       |
| 2349420       | Selenium   | 99.3    | 96.4    | P/P       | 80 - 120       |
| 2349420       | Silver     | 102     | 99.8    | P/P       | 80 - 120       |
| 2349420       | Thallium   | 102     | 102     | P/P       | 80 - 120       |
| 2349422       | Aluminum   | 104     |         | P         | 80 - 120       |
| 2349422       | Antimony   | 106     |         | P         | 80 - 120       |
| 2349422       | Arsenic    | 102     |         | P         | 80 - 120       |
| 2349422       | Barium     | 105     |         | P         | 80 - 120       |
| 2349422       | Beryllium  | 95.3    |         | P         | 80 - 120       |
| 2349422       | Boron      | 101     |         | P         | 80 - 120       |
| 2349422       | Cadmium    | 103     |         | P         | 80 - 120       |
| 2349422       | Chromium   | 104     |         | P         | 80 - 120       |
| 2349422       | Cobalt     | 99.5    |         | P         | 80 - 120       |
| 2349422       | Copper     | 94.6    |         | P         | 80 - 120       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P418215

| Spiked Sample | Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2349422       | Lead       | 96.9    |         | P         | 80 - 120       |
| 2349422       | Manganese  | 102     |         | P         | 80 - 120       |
| 2349422       | Molybdenum | 102     |         | P         | 80 - 120       |
| 2349422       | Nickel     | 99.2    |         | P         | 80 - 120       |
| 2349422       | Selenium   | 99.6    |         | P         | 80 - 120       |
| 2349422       | Silver     | 102     |         | P         | 80 - 120       |
| 2349422       | Thallium   | 99.9    |         | P         | 80 - 120       |

Reference Method: EPA 8270E  
Batch ID: P418168

| Spiked Sample | Component                                       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------------------------------------|---------|---------|-----------|----------------|
| 2348187       | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 121     | 126     | P/P       | 50 - 150       |
| 2348187       | Acetochlor                                      | 82.3    | 101     | P/P       | 65 - 124       |
| 2348187       | Alachlor                                        | 70.4    | 89.7    | P/P       | 61 - 121       |
| 2348187       | Ametryn                                         | 67.9    | 66.2    | P/P       | 52 - 216       |
| 2348187       | Atrazine Desethyl                               | 53.6    | 57.8    | P/P       | 15 - 160       |
| 2348187       | Avobenzene                                      | 95.6    | 99.9    | P/P       | 59 - 206       |
| 2348187       | Azinphos Methyl                                 | 87.3    | 96.3    | P/P       | 40 - 292       |
| 2348187       | Azoxystrobin                                    | 93.8    | 116     | P/P       | 12 - 242       |
| 2348187       | Bromacil                                        | 80.8    | 86.6    | P/P       | 54 - 167       |
| 2348187       | Butylate                                        | 29.6    | 30.2    | P/P       | 14 - 94.0      |
| 2348187       | Caffeine                                        | 98.5    | 98.3    | P/P       | 10 - 226       |
| 2348187       | Carbophenothion                                 | 71.5    | 76.5    | P/P       | 49 - 122       |
| 2348187       | Carfentrazone Ethyl                             | 77.3    | 82.9    | P/P       | 53 - 138       |
| 2348187       | Chlorfenapyr                                    | 67.8    | 74.3    | P/P       | 50 - 150       |
| 2348187       | Chlorpyrifos Ethyl                              | 98.0    | 99.4    | P/P       | 52 - 122       |
| 2348187       | Chlorpyrifos Methyl                             | 84.0    | 96.0    | P/P       | 66 - 117       |
| 2348187       | Coumaphos                                       | 75.2    | 84.6    | P/P       | 50 - 220       |
| 2348187       | Cyanazine                                       | 78.4    | 82.3    | P/P       | 43 - 245       |
| 2348187       | Cyprodinil                                      | 76.2    | 85.9    | P/P       | 50 - 150       |
| 2348187       | Dechlorane Plus                                 | 139     | 133     | P/P       | 50 - 150       |
| 2348187       | Demeton                                         | 72.9    | 83.4    | P/P       | 43 - 188       |
| 2348187       | Diazinon                                        | 77.4    | 92.3    | P/P       | 69 - 131       |
| 2348187       | Difenoconazole                                  | 97.8    | 115     | P/P       | 34 - 231       |
| 2348187       | Dimethenamid                                    | 68.9    | 81.6    | P/P       | 55 - 118       |
| 2348187       | Dimethomorph                                    | 96.2    | 106     | P/P       | 50 - 150       |
| 2348187       | Disulfoton                                      | 78.6    | 91.3    | P/P       | 38 - 141       |
| 2348187       | Dithiopyr                                       | 61.3    | 73.6    | P/P       | 42 - 116       |
| 2348187       | EPTC                                            | 28.7    | 24.8    | P/P       | 18 - 85.0      |
| 2348187       | Ethion                                          | 73.6    | 70.4    | P/P       | 10 - 131       |
| 2348187       | Ethoprop                                        | 79.1    | 91.2    | P/P       | 65 - 129       |
| 2348187       | Etridiazole                                     | 37.5    | 37.5    | F/F       | 50 - 150       |
| 2348187       | Fenamiphos                                      | 70.7    | 72.2    | P/P       | 31 - 137       |
| 2348187       | Fenbuconazole                                   | 74.7    | 83.0    | P/P       | 57 - 160       |
| 2348187       | Fipronil                                        | 74.9    | 92.7    | P/P       | 62 - 132       |
| 2348187       | Fipronil Desulfinyl                             | 94.7    | 105     | P/P       | 57 - 131       |
| 2348187       | Fipronil Sulfide                                | 76.5    | 94.1    | P/P       | 15 - 138       |
| 2348187       | Fluazifop-P-butyl                               | 78.0    | 86.9    | P/P       | 54 - 133       |
| 2348187       | Fludioxonil                                     | 72.2    | 89.5    | P/P       | 58 - 127       |
| 2348187       | Flumioxazin                                     | 98.0    | 125     | P/P       | 33 - 300       |
| 2348187       | Flutolanil                                      | 51.2    | 63.1    | P/P       | 42 - 130       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E  
Batch ID: P418168

| Spiked Sample | Component              | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------------|---------|---------|-----------|----------------|
| 2348187       | Fluxapyroxad           | 72.0    | 83.5    | P/P       | 23 - 141       |
| 2348187       | Fonofos                | 81.9    | 85.8    | P/P       | 58 - 119       |
| 2348187       | Hexazinone             | 90.0    | 100     | P/P       | 68 - 172       |
| 2348187       | Imazalil               | 80.4    | 77.0    | P/P       | 48 - 283       |
| 2348187       | Iprodione              | 70.8    | 80.1    | P/P       | 38 - 140       |
| 2348187       | Loratadine             | 91.6    | 102     | P/P       | 50 - 150       |
| 2348187       | Malathion              | 91.5    | 103     | P/P       | 40 - 137       |
| 2348187       | Metalaxyl              | 74.4    | 82.4    | P/P       | 21 - 129       |
| 2348187       | Metolachlor            | 76.3    | 92.7    | P/P       | 55 - 122       |
| 2348187       | Metribuzin             | 93.8    | 117     | P/P       | 38 - 187       |
| 2348187       | Mevinphos              | 67.7    | 74.7    | P/P       | 54 - 134       |
| 2348187       | Molinate               | 49.0    | 52.1    | P/P       | 41 - 97.0      |
| 2348187       | Myclobutanil           | 92.4    | 114     | P/P       | 56 - 125       |
| 2348187       | Naled                  | 73.9    | 105     | P/P       | 10 - 108       |
| 2348187       | Napropamide            | 63.3    | 73.8    | P/P       | 50 - 150       |
| 2348187       | Norflurazon            | 65.1    | 78.1    | P/P       | 32 - 122       |
| 2348187       | Octinoxate             | 103     | 110     | P/P       | 25 - 150       |
| 2348187       | Oxybenzone             | 107     | 106     | P/P       | 59 - 147       |
| 2348187       | Oxyfluorfen            | 90.1    | 106     | P/P       | 61 - 153       |
| 2348187       | Parathion Ethyl        | 87.9    | 101     | P/P       | 59 - 130       |
| 2348187       | Parathion Methyl       | 96.2    | 115     | P/P       | 65 - 155       |
| 2348187       | PBDE-47                | 108     | 114     | P/P       | 50 - 150       |
| 2348187       | PBDE-99                | 106     | 111     | P/P       | 50 - 150       |
| 2348187       | Pendimethalin          | 100     | 114     | P/P       | 49 - 138       |
| 2348187       | Phenytoin              | 36.8    | 45.7    | F/F       | 50 - 200       |
| 2348187       | Phorate                | 68.4    | 78.3    | P/P       | 54 - 161       |
| 2348187       | Prodiamine             | 48.8    | 53.2    | P/P       | 33 - 161       |
| 2348187       | Prometon               | 74.7    | 72.5    | P/P       | 48 - 140       |
| 2348187       | Prometryn              | 73.1    | 77.4    | P/P       | 55 - 134       |
| 2348187       | Pronamide              | 77.9    | 91.8    | P/P       | 66 - 137       |
| 2348187       | Propanil               | 68.8    | 86.9    | P/P       | 50 - 150       |
| 2348187       | Propargite             | 52.5    | 59.7    | P/P       | 50 - 200       |
| 2348187       | Propiconazole          | 74.6    | 95.0    | P/P       | 36 - 150       |
| 2348187       | Pyraflufen Ethyl       | 64.9    | 72.8    | P/P       | 50 - 150       |
| 2348187       | Pyridaben              | 101     | 96.8    | P/P       | 50 - 200       |
| 2348187       | Pyriproxyfen           | 61.4    | 76.5    | P/P       | 10 - 165       |
| 2348187       | Stirophos              | 61.7    | 64.9    | P/P       | 50 - 150       |
| 2348187       | Sulfentrazone          | 84.1    | 113     | P/P       | 34 - 140       |
| 2348187       | Tebuconazole           | 49.6    | 54.6    | P/P       | 10 - 127       |
| 2348187       | Terbufos               | 98.3    | 113     | P/P       | 59 - 138       |
| 2348187       | Terbutylazine          | 82.6    | 95.1    | P/P       | 68 - 119       |
| 2348187       | Thiobencarb            | 67.9    | 79.3    | P/P       | 50 - 150       |
| 2348187       | Tri-o-cresyl Phosphate | 96.2    | 101     | P/P       | 50 - 150       |
| 2348187       | Triadimefon            | 67.3    | 77.9    | P/P       | 50 - 150       |

Reference Method: EPA 8270E  
Batch ID: P418277

| Spiked Sample | Component       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------------|---------|---------|-----------|----------------|
| 2350620       | Aldrin          | 48.6    | 54.8    | P/P       | 20 - 82.0      |
| 2350620       | Alpha-BHC       | 84.2    | 96.5    | P/P       | 71 - 109       |
| 2350620       | Alpha-Chlordane | 64.9    | 74.0    | P/P       | 42 - 106       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E  
Batch ID: P418277

| Spiked Sample | Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------------|---------|---------|-----------|----------------|
| 2350620       | Beta-BHC           | 103     | 122     | P/P       | 69 - 180       |
| 2350620       | Beta-Cyfluthrin    | 63.4    | 71.0    | P/P       | 18 - 175       |
| 2350620       | Bifenthrin         | 45.9    | 49.1    | P/P       | 21 - 128       |
| 2350620       | Chlorothalonil     | 71.1    | 79.0    | P/P       | 10 - 300       |
| 2350620       | Cis-Nonachlor      | 64.2    | 76.7    | P/P       | 34 - 106       |
| 2350620       | Cypermethrin       | 61.4    | 68.9    | P/P       | 22 - 158       |
| 2350620       | Dacthal            | 82.2    | 98.8    | P/P       | 54 - 116       |
| 2350620       | DDD-p,p'           | 63.1    | 72.2    | P/P       | 34 - 107       |
| 2350620       | DDE-p,p'           | 65.0    | 72.3    | P/P       | 33 - 110       |
| 2350620       | DDT-p,p'           | 61.4    | 68.7    | P/P       | 50 - 122       |
| 2350620       | Delta-BHC          | 105     | 132     | P/P       | 77 - 193       |
| 2350620       | Deltamethrin       | 62.9    | 74.6    | P/P       | 10 - 195       |
| 2350620       | Dichlobenil        | 86.6    | 97.6    | P/P       | 25 - 113       |
| 2350620       | Dicofol            | 64.5    | 75.4    | P/P       | 38 - 247       |
| 2350620       | Dieldrin           | 67.9    | 80.5    | P/P       | 45 - 118       |
| 2350620       | Endosulfan I       | 70.5    | 86.3    | P/P       | 51 - 106       |
| 2350620       | Endosulfan II      | 68.8    | 81.2    | P/P       | 37 - 122       |
| 2350620       | Endosulfan Sulfate | 76.2    | 84.0    | P/P       | 43 - 132       |
| 2350620       | Endrin             | 71.0    | 83.3    | P/P       | 29 - 101       |
| 2350620       | Endrin Aldehyde    | 73.1    | 77.3    | P/P       | 19 - 110       |
| 2350620       | Endrin Ketone      | 78.5    | 92.3    | P/P       | 60 - 140       |
| 2350620       | Esfenvalerate      | 59.1    | 69.5    | P/P       | 26 - 199       |
| 2350620       | Ethalfuralin       | 64.9    | 75.1    | P/P       | 45 - 99.0      |
| 2350620       | Fenpropathrin      | 94.5    | 109     | P/P       | 35 - 120       |
| 2350620       | Gamma-BHC          | 89.1    | 106     | P/P       | 63 - 128       |
| 2350620       | Gamma-Chlordane    | 62.9    | 69.1    | P/P       | 40 - 104       |
| 2350620       | Heptachlor         | 59.5    | 65.0    | P/P       | 36 - 97.0      |
| 2350620       | Heptachlor Epoxide | 71.8    | 87.1    | P/P       | 49 - 184       |
| 2350620       | Hexachlorobenzene  | 68.6    | 77.6    | P/P       | 39 - 96.0      |
| 2350620       | Kepone             | 116     | 125     | P/P       | 10 - 217       |
| 2350620       | Lambda-Cyhalothrin | 55.1    | 62.3    | P/P       | 21 - 193       |
| 2350620       | Methoprene         | 53.9    | 60.9    | P/P       | 20 - 106       |
| 2350620       | Methoxychlor       | 61.0    | 74.2    | P/P       | 53 - 118       |
| 2350620       | MGK-264            | 77.8    | 92.0    | P/P       | 40 - 118       |
| 2350620       | Mirex              | 51.7    | 56.2    | P/P       | 26 - 92.0      |
| 2350620       | Oxychlordane       | 70.1    | 80.8    | P/P       | 44 - 99.0      |
| 2350620       | Permethrin         | 62.5    | 68.4    | P/P       | 33 - 182       |
| 2350620       | Phenothrin         | 47.4    | 53.6    | P/P       | 10 - 129       |
| 2350620       | Piperonyl Butoxide | 83.7    | 101     | P/P       | 10 - 211       |
| 2350620       | Prallethrin        | 68.1    | 73.8    | P/P       | 24 - 113       |
| 2350620       | Tau-Fluvalinate    | 57.0    | 61.6    | P/P       | 14 - 149       |
| 2350620       | Tetramethrin       | 72.4    | 86.5    | P/P       | 17 - 151       |
| 2350620       | Trans-Nonachlor    | 72.4    | 78.0    | P/P       | 42 - 102       |
| 2350620       | Triclosan Methyl   | 71.4    | 81.3    | P/P       | 48 - 108       |
| 2350620       | Trifluralin        | 64.8    | 76.3    | P/P       | 47 - 96.0      |
| 2350970       | PCB-1016           | 98.3    | 81.9    | P/P       | 46 - 111       |
| 2350970       | PCB-1260           | 92.3    | 82.4    | P/P       | 45 - 114       |

Reference Method: EPA 8276  
Batch ID: P418277

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
|---------------|-----------|---------|---------|-----------|----------------|

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276

Batch ID: P418277

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2350970       | Chlordane | 115     | 106     | P/P       | 53 - 126       |
| 2350970       | Toxaphene | 132     | 118     | P/P       | 56 - 211       |

Reference Method: EPA 8321B

Batch ID: P418169

| Spiked Sample | Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------|---------|---------|-----------|----------------|
| 2348670       | 2,4-D            | 103     | 76.1    | P/P       | 40 - 150       |
| 2348670       | 2,4,5-T          | 101     | 77.8    | P/P       | 40 - 150       |
| 2348670       | Acetaminophen    | 110     | 99.8    | P/P       | 30 - 150       |
| 2348670       | Acetamiprid      | 77.5    | 77.8    | P/P       | 40 - 150       |
| 2348670       | Afidopyropen     | 24.4    | 28.2    | F/F       | 30 - 150       |
| 2348670       | Bentazon         | 108     | 91.8    | P/P       | 30 - 150       |
| 2348670       | Benzovindiflupyr | 102     | 103     | P/P       | 40 - 150       |
| 2348670       | Carbamazepine    | 81.8    | 101     | P/P       | 40 - 150       |
| 2348670       | Clothianidin     | 92.0    | 83.0    | P/P       | 40 - 150       |
| 2348670       | Dinotefuran      | 130     | 116     | P/P       | 40 - 150       |
| 2348670       | Diuron           | 108     | 101     | P/P       | 40 - 150       |
| 2348670       | Fenuron          | 119     | 108     | P/P       | 40 - 150       |
| 2348670       | Fluridone        | 90.4    | 77.2    | P/P       | 40 - 150       |
| 2348670       | Hydrocodone      | 39.9    | 38.7    | F/F       | 40 - 150       |
| 2348670       | Ibuprofen        | 64.9    | 73.0    | P/P       | 40 - 150       |
| 2348670       | Imazapyr         | 136     | 109     | P/P       | 40 - 150       |
| 2348670       | Imidacloprid     | 81.2    | 75.9    | P/P       | 40 - 150       |
| 2348670       | Linuron          | 99.9    | 98.2    | P/P       | 40 - 150       |
| 2348670       | Mandestrobin     | 117     | 94.7    | P/P       | 40 - 150       |
| 2348670       | MCPP             | 86.5    | 81.8    | P/P       | 40 - 150       |
| 2348670       | Naproxen         | 68.7    | 83.2    | P/P       | 40 - 150       |
| 2348670       | Primidone        | 64.3    | 57.7    | P/P       | 40 - 150       |
| 2348670       | Pyraclostrobin   | 110     | 99.6    | P/P       | 40 - 150       |
| 2348670       | Silvex           | 85.8    | 76.0    | P/P       | 40 - 150       |
| 2348670       | Thiamethoxam     | 128     | 97.6    | P/P       | 40 - 150       |
| 2348670       | Tolfenpyrad      | 67.8    | 69.1    | P/P       | 30 - 150       |
| 2348670       | Triclopyr        | 89.6    | 72.3    | P/P       | 40 - 150       |

Reference Method: EPA 8321B

Batch ID: P418300

| Spiked Sample | Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2349650       | Acesulfame K | 79.1    | 90.9    | P/P       | 40 - 150       |
| 2349650       | AMPA         | 103     | 98.5    | P/P       | 40 - 150       |
| 2349650       | Endothall    | 127     | 131     | P/P       | 40 - 150       |
| 2349650       | Glufosinate  | 103     | 102     | P/P       | 40 - 150       |
| 2349650       | Glyphosate   | 110     | 107     | P/P       | 40 - 150       |
| 2349650       | Sucralose    | 93.0    | 109     | P/P       | 40 - 150       |

Reference Method: EPA 8321B

Batch ID: P418426

| Spiked Sample | Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------------|---------|---------|-----------|----------------|
| 2350563       | 3-Hydroxycarbofuran | 88.2    | 96.2    | P/P       | 40 - 150       |
| 2350563       | Aldicarb            | 63.5    | 54.5    | P/P       | 30 - 150       |

## Quality Assurance Report

### Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P418426

| Spiked Sample | Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------------|---------|---------|-----------|----------------|
| 2350563       | Aldicarb Sulfone   | 86.0    | 94.5    | P/P       | 40 - 150       |
| 2350563       | Aldicarb Sulfoxide | 44.4    | 42.8    | P/P       | 40 - 150       |
| 2350563       | Carbaryl           | 73.3    | 72.1    | P/P       | 40 - 150       |
| 2350563       | Carbofuran         | 76.3    | 79.0    | P/P       | 40 - 150       |
| 2350563       | Methiocarb         | 70.4    | 89.8    | P/P       | 40 - 150       |
| 2350563       | Methomyl           | 77.9    | 79.9    | P/P       | 40 - 150       |
| 2350563       | Oxamyl             | 87.0    | 92.4    | P/P       | 40 - 150       |
| 2350563       | Propoxur           | 82.3    | 82.7    | P/P       | 40 - 150       |

## Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P418215

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2349420                  | Calcium   | 0.204     | Spike             | P         | 0 - 20         |
| 2349420                  | Iron      | 0.176     | Spike             | P         | 0 - 20         |
| 2349420                  | Magnesium | 0.811     | Spike             | P         | 0 - 20         |
| 2349420                  | Potassium | 2.21      | Spike             | P         | 0 - 20         |
| 2349420                  | Sodium    | 0.401     | Spike             | P         | 0 - 20         |
| 2349420                  | Strontium | 2.13      | Spike             | P         | 0 - 20         |
| 2349420                  | Tin       | 2.26      | Spike             | P         | 0 - 20         |
| 2349420                  | Titanium  | 3.42      | Spike             | P         | 0 - 20         |
| 2349420                  | Vanadium  | 1.95      | Spike             | P         | 0 - 20         |
| 2349420                  | Zinc      | 1.36      | Spike             | P         | 0 - 20         |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418215

| Replicated<br>Lab Sample | Component  | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------|-----------|-------------------|-----------|----------------|
| 2349420                  | Aluminum   | 1.57      | Spike             | P         | 0 - 20         |
| 2349420                  | Antimony   | 2.43      | Spike             | P         | 0 - 20         |
| 2349420                  | Arsenic    | 1.29      | Spike             | P         | 0 - 20         |
| 2349420                  | Barium     | 2.83      | Spike             | P         | 0 - 20         |
| 2349420                  | Beryllium  | 1.80      | Spike             | P         | 0 - 20         |
| 2349420                  | Boron      | 1.21      | Spike             | P         | 0 - 20         |
| 2349420                  | Cadmium    | 2.14      | Spike             | P         | 0 - 20         |
| 2349420                  | Chromium   | 2.48      | Spike             | P         | 0 - 20         |
| 2349420                  | Cobalt     | 1.82      | Spike             | P         | 0 - 20         |
| 2349420                  | Copper     | 1.67      | Spike             | P         | 0 - 20         |
| 2349420                  | Lead       | 1.26      | Spike             | P         | 0 - 20         |
| 2349420                  | Manganese  | 2.43      | Spike             | P         | 0 - 20         |
| 2349420                  | Molybdenum | 0.552     | Spike             | P         | 0 - 20         |
| 2349420                  | Nickel     | 2.20      | Spike             | P         | 0 - 20         |
| 2349420                  | Selenium   | 2.98      | Spike             | P         | 0 - 20         |
| 2349420                  | Silver     | 1.84      | Spike             | P         | 0 - 20         |
| 2349420                  | Thallium   | 0.0532    | Spike             | P         | 0 - 20         |

Reference Method: EPA 8270E

Batch ID: P418168

| Replicated<br>Lab Sample | Component                                       | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------------------------------------|-----------|-------------------|-----------|----------------|
| 2348187                  | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 4.62      | Spike             | P         | 0 - 30         |
| 2348187                  | Acetochlor                                      | 20.4      | Spike             | P         | 0 - 27         |
| 2348187                  | Alachlor                                        | 24.1      | Spike             | P         | 0 - 27         |
| 2348187                  | Ametryn                                         | 1.12      | Spike             | P         | 0 - 34         |
| 2348187                  | Atrazine                                        | 3.06      | Spike             | P         | 0 - 41         |
| 2348187                  | Atrazine Desethyl                               | 3.60      | Spike             | P         | 0 - 38         |
| 2348187                  | Avobenzone                                      | 4.40      | Spike             | P         | 0 - 30         |
| 2348187                  | Azinphos Methyl                                 | 9.80      | Spike             | P         | 0 - 62         |
| 2348187                  | Azoxystrobin                                    | 14.7      | Spike             | P         | 0 - 32         |
| 2348187                  | Bromacil                                        | 6.94      | Spike             | P         | 0 - 30         |
| 2348187                  | Butylate                                        | 2.07      | Spike             | P         | 0 - 59         |
| 2348187                  | Caffeine                                        | 0.242     | Spike             | P         | 0 - 60         |

## Quality Assurance Report

### Precision

Reference Method: EPA 8270E

Batch ID: P418168

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2348187                  | Carbophenothion     | 6.85      | Spike             | P         | 0 - 25         |
| 2348187                  | Carfentrazone Ethyl | 6.96      | Spike             | P         | 0 - 26         |
| 2348187                  | Chlorfenapyr        | 9.15      | Spike             | P         | 0 - 30         |
| 2348187                  | Chlorpyrifos Ethyl  | 1.42      | Spike             | P         | 0 - 27         |
| 2348187                  | Chlorpyrifos Methyl | 13.4      | Spike             | P         | 0 - 26         |
| 2348187                  | Coumaphos           | 11.8      | Spike             | P         | 0 - 30         |
| 2348187                  | Cyanazine           | 4.83      | Spike             | P         | 0 - 58         |
| 2348187                  | Cyprodinil          | 12.0      | Spike             | P         | 0 - 30         |
| 2348187                  | Dechlorane Plus     | 4.39      | Spike             | P         | 0 - 30         |
| 2348187                  | Demeton             | 13.5      | Spike             | P         | 0 - 25         |
| 2348187                  | Diazinon            | 17.5      | Spike             | P         | 0 - 29         |
| 2348187                  | Difenoconazole      | 16.3      | Spike             | P         | 0 - 25         |
| 2348187                  | Dimethenamid        | 16.9      | Spike             | P         | 0 - 30         |
| 2348187                  | Dimethomorph        | 9.90      | Spike             | P         | 0 - 30         |
| 2348187                  | Disulfoton          | 14.9      | Spike             | P         | 0 - 33         |
| 2348187                  | Dithiopyr           | 13.7      | Spike             | P         | 0 - 22         |
| 2348187                  | EPTC                | 14.4      | Spike             | P         | 0 - 38         |
| 2348187                  | Ethion              | 4.40      | Spike             | P         | 0 - 79         |
| 2348187                  | Ethoprop            | 14.2      | Spike             | P         | 0 - 23         |
| 2348187                  | Etridiazole         | 0.0601    | Spike             | P         | 0 - 30         |
| 2348187                  | Fenamiphos          | 2.10      | Spike             | P         | 0 - 58         |
| 2348187                  | Fenbuconazole       | 10.5      | Spike             | P         | 0 - 37         |
| 2348187                  | Fipronil            | 19.3      | Spike             | P         | 0 - 33         |
| 2348187                  | Fipronil Desulfinyl | 6.80      | Spike             | P         | 0 - 26         |
| 2348187                  | Fipronil Sulfide    | 13.4      | Spike             | P         | 0 - 37         |
| 2348187                  | Fipronil Sulfone    | 11.4      | Spike             | P         | 0 - 50         |
| 2348187                  | Fluazifop-P-butyl   | 10.8      | Spike             | P         | 0 - 24         |
| 2348187                  | Fludioxonil         | 21.4      | Spike             | P         | 0 - 26         |
| 2348187                  | Flumioxazin         | 24.4      | Spike             | P         | 0 - 37         |
| 2348187                  | Flutolanil          | 16.3      | Spike             | P         | 0 - 26         |
| 2348187                  | Fluxapyroxad        | 10.6      | Spike             | P         | 0 - 34         |
| 2348187                  | Fonofos             | 4.66      | Spike             | P         | 0 - 27         |
| 2348187                  | Hexazinone          | 10.9      | Spike             | P         | 0 - 36         |
| 2348187                  | Imazalil            | 4.33      | Spike             | P         | 0 - 65         |
| 2348187                  | Iprodione           | 12.3      | Spike             | P         | 0 - 33         |
| 2348187                  | Loratadine          | 10.4      | Spike             | P         | 0 - 30         |
| 2348187                  | Malathion           | 12.1      | Spike             | P         | 0 - 44         |
| 2348187                  | Metalaxyl           | 10.2      | Spike             | P         | 0 - 38         |
| 2348187                  | Metolachlor         | 12.9      | Spike             | P         | 0 - 36         |
| 2348187                  | Metribuzin          | 22.0      | Spike             | P         | 0 - 63         |
| 2348187                  | Mevinphos           | 9.87      | Spike             | P         | 0 - 26         |
| 2348187                  | Molinate            | 6.03      | Spike             | P         | 0 - 40         |
| 2348187                  | Myclobutanil        | 11.1      | Spike             | P         | 0 - 21         |
| 2348187                  | Naled               | 34.4      | Spike             | F         | 0 - 26         |
| 2348187                  | Napropamide         | 15.3      | Spike             | P         | 0 - 30         |
| 2348187                  | Norflurazon         | 18.1      | Spike             | P         | 0 - 24         |
| 2348187                  | Octinoxate          | 6.95      | Spike             | P         | 0 - 30         |
| 2348187                  | Oxadiazon           | 6.63      | Spike             | P         | 0 - 27         |
| 2348187                  | Oxybenzone          | 1.29      | Spike             | P         | 0 - 30         |
| 2348187                  | Oxyfluorfen         | 16.5      | Spike             | P         | 0 - 24         |
| 2348187                  | Parathion Ethyl     | 13.9      | Spike             | P         | 0 - 28         |

## Quality Assurance Report

### Precision

Reference Method: EPA 8270E

Batch ID: P418168

| Replicated<br>Lab Sample | Component              | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------------|-----------|-------------------|-----------|----------------|
| 2348187                  | Parathion Methyl       | 17.8      | Spike             | P         | 0 - 27         |
| 2348187                  | PBDE-47                | 5.50      | Spike             | P         | 0 - 30         |
| 2348187                  | PBDE-99                | 5.21      | Spike             | P         | 0 - 30         |
| 2348187                  | Pendimethalin          | 13.0      | Spike             | P         | 0 - 31         |
| 2348187                  | Phenytoin              | 21.5      | Spike             | P         | 0 - 30         |
| 2348187                  | Phorate                | 13.5      | Spike             | P         | 0 - 27         |
| 2348187                  | Prodiamine             | 8.63      | Spike             | P         | 0 - 52         |
| 2348187                  | Prometon               | 3.00      | Spike             | P         | 0 - 31         |
| 2348187                  | Prometryn              | 5.77      | Spike             | P         | 0 - 28         |
| 2348187                  | Pronamide              | 16.3      | Spike             | P         | 0 - 26         |
| 2348187                  | Propanil               | 23.2      | Spike             | P         | 0 - 30         |
| 2348187                  | Propargite             | 12.9      | Spike             | P         | 0 - 30         |
| 2348187                  | Propiconazole          | 15.2      | Spike             | P         | 0 - 31         |
| 2348187                  | Pyraflufen Ethyl       | 11.5      | Spike             | P         | 0 - 30         |
| 2348187                  | Pyridaben              | 4.00      | Spike             | P         | 0 - 30         |
| 2348187                  | Pyriproxyfen           | 21.8      | Spike             | P         | 0 - 50         |
| 2348187                  | Simazine               | 0.368     | Spike             | P         | 0 - 29         |
| 2348187                  | Stiropfos              | 5.16      | Spike             | P         | 0 - 30         |
| 2348187                  | Sulfentrazone          | 15.6      | Spike             | P         | 0 - 33         |
| 2348187                  | Tebuconazole           | 8.02      | Spike             | P         | 0 - 44         |
| 2348187                  | Terbufos               | 14.1      | Spike             | P         | 0 - 29         |
| 2348187                  | Terbuthylazine         | 14.0      | Spike             | P         | 0 - 27         |
| 2348187                  | Thiobencarb            | 15.5      | Spike             | P         | 0 - 30         |
| 2348187                  | Tri-o-cresyl Phosphate | 4.42      | Spike             | P         | 0 - 30         |
| 2348187                  | Triadimefon            | 14.6      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8270E

Batch ID: P418277

| Replicated<br>Lab Sample | Component       | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------------|-----------|-------------------|-----------|----------------|
| 2350620                  | Aldrin          | 12.0      | Spike             | P         | 0 - 41         |
| 2350620                  | Alpha-BHC       | 13.6      | Spike             | P         | 0 - 25         |
| 2350620                  | Alpha-Chlordane | 13.1      | Spike             | P         | 0 - 33         |
| 2350620                  | Beta-BHC        | 16.3      | Spike             | P         | 0 - 36         |
| 2350620                  | Beta-Cyfluthrin | 11.3      | Spike             | P         | 0 - 42         |
| 2350620                  | Bifenthrin      | 6.64      | Spike             | P         | 0 - 53         |
| 2350620                  | Chlorothalonil  | 10.5      | Spike             | P         | 0 - 71         |
| 2350620                  | Cis-Nonachlor   | 17.7      | Spike             | P         | 0 - 29         |
| 2350620                  | Cypermethrin    | 11.6      | Spike             | P         | 0 - 40         |
| 2350620                  | Dacthal         | 18.4      | Spike             | P         | 0 - 26         |
| 2350620                  | DDD-p,p'        | 13.4      | Spike             | P         | 0 - 39         |
| 2350620                  | DDE-p,p'        | 10.6      | Spike             | P         | 0 - 33         |
| 2350620                  | DDT-p,p'        | 11.3      | Spike             | P         | 0 - 40         |
| 2350620                  | Delta-BHC       | 22.4      | Spike             | P         | 0 - 37         |
| 2350620                  | Deltamethrin    | 17.0      | Spike             | P         | 0 - 100        |
| 2350620                  | Dichlobenil     | 11.9      | Spike             | P         | 0 - 40         |
| 2350620                  | Dicofol         | 15.6      | Spike             | P         | 0 - 31         |
| 2350620                  | Dieldrin        | 17.0      | Spike             | P         | 0 - 27         |
| 2350620                  | Endosulfan I    | 20.1      | Spike             | P         | 0 - 23         |
| 2350620                  | Endosulfan II   | 16.6      | Spike             | P         | 0 - 28         |

## Quality Assurance Report

### Precision

Reference Method: EPA 8270E

Batch ID: P418277

| Replicated<br>Lab Sample | Component          | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------------|-----------|-------------------|-----------|----------------|
| 2350620                  | Endosulfan Sulfate | 9.64      | Spike             | P         | 0 - 38         |
| 2350620                  | Endrin             | 16.0      | Spike             | P         | 0 - 63         |
| 2350620                  | Endrin Aldehyde    | 5.65      | Spike             | P         | 0 - 60         |
| 2350620                  | Endrin Ketone      | 16.2      | Spike             | P         | 0 - 37         |
| 2350620                  | Esfenvalerate      | 16.1      | Spike             | P         | 0 - 52         |
| 2350620                  | Ethalfuralin       | 14.6      | Spike             | P         | 0 - 23         |
| 2350620                  | Fenpropathrin      | 14.2      | Spike             | P         | 0 - 32         |
| 2350620                  | Gamma-BHC          | 17.5      | Spike             | F         | 0 - 17         |
| 2350620                  | Gamma-Chlordane    | 9.40      | Spike             | P         | 0 - 40         |
| 2350620                  | Heptachlor         | 8.88      | Spike             | P         | 0 - 29         |
| 2350620                  | Heptachlor Epoxide | 19.3      | Spike             | P         | 0 - 25         |
| 2350620                  | Hexachlorobenzene  | 12.4      | Spike             | P         | 0 - 36         |
| 2350620                  | Kepone             | 7.82      | Spike             | P         | 0 - 93         |
| 2350620                  | Lambda-Cyhalothrin | 12.2      | Spike             | P         | 0 - 55         |
| 2350620                  | Methoprene         | 12.2      | Spike             | P         | 0 - 53         |
| 2350620                  | Methoxychlor       | 19.5      | Spike             | P         | 0 - 29         |
| 2350620                  | MGK-264            | 16.8      | Spike             | P         | 0 - 35         |
| 2350620                  | Mirex              | 8.32      | Spike             | P         | 0 - 46         |
| 2350620                  | Oxychlordane       | 14.2      | Spike             | P         | 0 - 29         |
| 2350620                  | Permethrin         | 9.05      | Spike             | P         | 0 - 44         |
| 2350620                  | Phenothrin         | 12.3      | Spike             | P         | 0 - 56         |
| 2350620                  | Piperonyl Butoxide | 19.2      | Spike             | P         | 0 - 100        |
| 2350620                  | Prallethrin        | 7.92      | Spike             | P         | 0 - 42         |
| 2350620                  | Tau-Fluvalinate    | 7.79      | Spike             | P         | 0 - 54         |
| 2350620                  | Tetramethrin       | 17.9      | Spike             | P         | 0 - 51         |
| 2350620                  | Trans-Nonachlor    | 7.39      | Spike             | P         | 0 - 37         |
| 2350620                  | Triclosan Methyl   | 12.9      | Spike             | P         | 0 - 31         |
| 2350620                  | Trifluralin        | 16.3      | Spike             | P         | 0 - 30         |
| 2350970                  | PCB-1016           | 18.2      | Spike             | P         | 0 - 32         |
| 2350970                  | PCB-1260           | 11.3      | Spike             | P         | 0 - 31         |

Reference Method: EPA 8276

Batch ID: P418277

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2350970                  | Chlordane | 8.62      | Spike             | P         | 0 - 25         |
| 2350970                  | Toxaphene | 11.5      | Spike             | P         | 0 - 26         |

Reference Method: EPA 8321B

Batch ID: P418169

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2348670                  | 2,4-D            | 29.2      | Spike             | P         | 0 - 30         |
| 2348670                  | 2,4,5-T          | 26.2      | Spike             | P         | 0 - 30         |
| 2348670                  | Acetaminophen    | 10.2      | Spike             | P         | 0 - 30         |
| 2348670                  | Acetamiprid      | 0.394     | Spike             | P         | 0 - 30         |
| 2348670                  | Afidopyropen     | 14.5      | Spike             | P         | 0 - 30         |
| 2348670                  | Bentazon         | 16.6      | Spike             | P         | 0 - 30         |
| 2348670                  | Benzovindiflupyr | 1.22      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8321B  
Batch ID: P418169

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2348670                  | Carbamazepine  | 21.4      | Spike             | P         | 0 - 30         |
| 2348670                  | Clothianidin   | 10.3      | Spike             | P         | 0 - 30         |
| 2348670                  | Dinotefuran    | 11.0      | Spike             | P         | 0 - 30         |
| 2348670                  | Diuron         | 6.71      | Spike             | P         | 0 - 30         |
| 2348670                  | Fenuron        | 9.60      | Spike             | P         | 0 - 30         |
| 2348670                  | Fluridone      | 15.7      | Spike             | P         | 0 - 30         |
| 2348670                  | Hydrocodone    | 3.17      | Spike             | P         | 0 - 30         |
| 2348670                  | Ibuprofen      | 11.7      | Spike             | P         | 0 - 30         |
| 2348670                  | Imazapyr       | 14.5      | Spike             | P         | 0 - 30         |
| 2348670                  | Imidacloprid   | 6.73      | Spike             | P         | 0 - 30         |
| 2348670                  | Linuron        | 1.69      | Spike             | P         | 0 - 30         |
| 2348670                  | Mandestrobin   | 20.8      | Spike             | P         | 0 - 30         |
| 2348670                  | MCPP           | 5.57      | Spike             | P         | 0 - 30         |
| 2348670                  | Naproxen       | 19.0      | Spike             | P         | 0 - 30         |
| 2348670                  | Primidone      | 10.8      | Spike             | P         | 0 - 30         |
| 2348670                  | Pyraclostrobin | 9.59      | Spike             | P         | 0 - 30         |
| 2348670                  | Silvex         | 12.2      | Spike             | P         | 0 - 30         |
| 2348670                  | Thiamethoxam   | 27.1      | Spike             | P         | 0 - 30         |
| 2348670                  | Tolfenpyrad    | 1.91      | Spike             | P         | 0 - 30         |
| 2348670                  | Triclopyr      | 21.3      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P418300

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2349650                  | Acesulfame K | 13.8      | Spike             | P         | 0 - 30         |
| 2349650                  | AMPA         | 4.26      | Spike             | P         | 0 - 30         |
| 2349650                  | Endothall    | 2.83      | Spike             | P         | 0 - 30         |
| 2349650                  | Glufosinate  | 0.409     | Spike             | P         | 0 - 30         |
| 2349650                  | Glyphosate   | 3.07      | Spike             | P         | 0 - 30         |
| 2349650                  | Sucralose    | 15.2      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P418426

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2350563                  | 3-Hydroxycarbofuran | 8.72      | Spike             | P         | 0 - 30         |
| 2350563                  | Aldicarb            | 15.3      | Spike             | P         | 0 - 30         |
| 2350563                  | Aldicarb Sulfone    | 9.46      | Spike             | P         | 0 - 30         |
| 2350563                  | Aldicarb Sulfoxide  | 3.89      | Spike             | P         | 0 - 30         |
| 2350563                  | Carbaryl            | 1.62      | Spike             | P         | 0 - 30         |
| 2350563                  | Carbofuran          | 3.48      | Spike             | P         | 0 - 30         |
| 2350563                  | Methiocarb          | 24.1      | Spike             | P         | 0 - 30         |
| 2350563                  | Methomyl            | 2.45      | Spike             | P         | 0 - 30         |
| 2350563                  | Oxamyl              | 6.07      | Spike             | P         | 0 - 30         |
| 2350563                  | Propoxur            | 0.492     | Spike             | P         | 0 - 30         |

\* Sample, spike and/or laboratory control sample precision (LCS) is reported.

## Quality Assurance Report Surrogates

Lab Sample ID: 2349699  
Field Sample ID: G2TLHR0015

| Reference Method | Surrogate   | % Rec. | Pass/Fail | Control Limits |
|------------------|-------------|--------|-----------|----------------|
| EPA 8321B        | Carbaryl-d7 | 87.9   | P         | 30 - 160       |

Lab Sample ID: 2349700  
Field Sample ID: G2TLHR0015

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 82.3   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 109    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 94.2   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 111    | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 122    | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 107    | P         | 30 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 69.1   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 72.9   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 109    | P         | 30 - 160       |

Lab Sample ID: 2349702  
Field Sample ID: G2TLHR0031

| Reference Method | Surrogate            | % Rec. | Pass/Fail | Control Limits |
|------------------|----------------------|--------|-----------|----------------|
| EPA 8270E        | Decachlorobiphenyl   | 85.3   | P         | 29 - 130       |
| EPA 8270E        | Decachlorobiphenyl   | 52.6   | P         | 30 - 118       |
| EPA 8270E        | Tetrachloro-m-xylene | 63.1   | P         | 29 - 104       |
| EPA 8270E        | Tetrachloro-m-xylene | 60.4   | P         | 30 - 97.0      |
| EPA 8276         | Decachlorobiphenyl   | 85.3   | P         | 30 - 101       |
| EPA 8276         | PCNB                 | 89.6   | P         | 48 - 121       |

Lab Sample ID: 2349703  
Field Sample ID: G2TLHR0015

| Reference Method | Surrogate            | % Rec. | Pass/Fail | Control Limits |
|------------------|----------------------|--------|-----------|----------------|
| EPA 8270E        | Decachlorobiphenyl   | 102    | P         | 29 - 130       |
| EPA 8270E        | Decachlorobiphenyl   | 61.8   | P         | 30 - 118       |
| EPA 8270E        | Tetrachloro-m-xylene | 55.1   | P         | 29 - 104       |
| EPA 8270E        | Tetrachloro-m-xylene | 68.8   | P         | 30 - 97.0      |
| EPA 8276         | Decachlorobiphenyl   | 102    | F         | 30 - 101       |
| EPA 8276         | PCNB                 | 92.3   | P         | 48 - 121       |

Lab Sample ID: 2349704  
Field Sample ID: G2TLHR0015

| Reference Method | Surrogate     | % Rec. | Pass/Fail | Control Limits |
|------------------|---------------|--------|-----------|----------------|
| EPA 8270E        | Caffeine-d9   | 56.8   | P         | 20 - 200       |
| EPA 8270E        | Simazine-d10  | 85.7   | P         | 71 - 140       |
| EPA 8270E        | Terbufos-d10  | 74.2   | P         | 62 - 131       |
| EPA 8270E        | Terphenyl-d14 | 76.4   | P         | 52 - 141       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114229

Included Lab Sample IDs: 2349706, 2349707

| Component  | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------|---------|---------|------------|----------------|
| Aluminum   | 101     | 100     | P/P        | 90 - 110       |
| Antimony   | 101     | 99.8    | P/P        | 90 - 110       |
| Arsenic    | 102     | 102     | P/P        | 90 - 110       |
| Barium     | 99.8    | 101     | P/P        | 90 - 110       |
| Boron      | 98.5    | 101     | P/P        | 90 - 110       |
| Cadmium    | 103     | 103     | P/P        | 90 - 110       |
| Chromium   | 102     | 101     | P/P        | 90 - 110       |
| Cobalt     | 99.0    | 99.8    | P/P        | 90 - 110       |
| Copper     | 98.4    | 99.7    | P/P        | 90 - 110       |
| Lead       | 93.7    | 94.0    | P/P        | 90 - 110       |
| Manganese  | 103     | 102     | P/P        | 90 - 110       |
| Molybdenum | 98.3    | 97.9    | P/P        | 90 - 110       |
| Nickel     | 98.0    | 99.1    | P/P        | 90 - 110       |
| Selenium   | 102     | 102     | P/P        | 90 - 110       |
| Silver     | 98.8    | 98.9    | P/P        | 90 - 110       |
| Thallium   | 102     | 101     | P/P        | 90 - 110       |

Reference Method: EPA 8321B

Run ID: A114235

Included Lab Sample IDs: 2349700

| Component   | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------|---------|---------|------------|----------------|
| AMPA        | 113     | 114     | P/P        | 60 - 160       |
| Endothall   | 101     | 109     | P/P        | 60 - 160       |
| Glufosinate | 107     | 114     | P/P        | 60 - 160       |
| Glyphosate  | 111     | 111     | P/P        | 60 - 160       |

Reference Method: EPA 8321B

Run ID: A114238

Included Lab Sample IDs: 2349700

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 96.4    | 96.5    | P/P        | 60 - 160       |
| Sucralose    | 108     | 109     | P/P        | 60 - 160       |

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114254

Included Lab Sample IDs: 2349706, 2349707

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Beryllium | 99.0    | 91.6    | P/P        | 90 - 110       |

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114269

Included Lab Sample IDs: 2349706, 2349707

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Calcium   | 95.6    | 96.2    | P/P        | 90 - 110       |
| Iron      | 96.0    | 97.3    | P/P        | 90 - 110       |
| Magnesium | 95.5    | 96.4    | P/P        | 90 - 110       |
| Potassium | 98.0    | 99.2    | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114269

Included Lab Sample IDs: 2349706, 2349707

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Sodium    | 95.3    | 97.1    | P/P        | 90 - 110       |
| Strontium | 98.9    | 100     | P/P        | 90 - 110       |
| Tin       | 96.0    | 98.6    | P/P        | 90 - 110       |
| Titanium  | 95.3    | 99.8    | P/P        | 90 - 110       |
| Vanadium  | 97.1    | 98.3    | P/P        | 90 - 110       |
| Zinc      | 95.1    | 99.3    | P/P        | 90 - 110       |

Reference Method: EPA 8270E

Run ID: A114271

Included Lab Sample IDs: 2349704

| Component                                       | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------------------------------------|---------|---------|------------|----------------|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 97.4    |         | P          | 80 - 120       |
| Avobenzone                                      | 100     |         | P          | 80 - 120       |
| Dechlorane Plus                                 | 99.8    |         | P          | 80 - 120       |
| Octinoxate                                      | 96.0    |         | P          | 80 - 120       |
| Oxybenzone                                      | 100     |         | P          | 80 - 120       |
| PBDE-47                                         | 97.4    |         | P          | 80 - 120       |
| PBDE-99                                         | 96.8    |         | P          | 80 - 120       |
| Tri-o-cresyl Phosphate                          | 98.0    |         | P          | 80 - 120       |

Reference Method: EPA 8270E

Run ID: A114289

Included Lab Sample IDs: 2349704

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Acetochlor          | 102     |         | P          | 80 - 120       |
| Alachlor            | 97.8    |         | P          | 80 - 120       |
| Ametryn             | 109     |         | P          | 80 - 120       |
| Atrazine            | 98.1    |         | P          | 80 - 120       |
| Atrazine Desethyl   | 95.1    |         | P          | 80 - 120       |
| Azinphos Methyl     | 107     |         | P          | 80 - 120       |
| Bromacil            | 98.8    |         | P          | 80 - 120       |
| Butylate            | 98.2    |         | P          | 80 - 120       |
| Caffeine            | 108     |         | P          | 80 - 120       |
| Carbophenothion     | 101     |         | P          | 80 - 120       |
| Carfentrazone Ethyl | 105     |         | P          | 80 - 120       |
| Chlorfenapyr        | 108     |         | P          | 80 - 120       |
| Chlorpyrifos Ethyl  | 104     |         | P          | 80 - 120       |
| Chlorpyrifos Methyl | 101     |         | P          | 80 - 120       |
| Coumaphos           | 103     |         | P          | 80 - 120       |
| Cyanazine           | 89.3    |         | P          | 80 - 120       |
| Cyprodinil          | 102     |         | P          | 80 - 120       |
| Demeton             | 103     |         | P          | 80 - 120       |
| Diazinon            | 99.8    |         | P          | 80 - 120       |
| Difenoconazole      | 102     |         | P          | 80 - 120       |
| Dimethenamid        | 104     |         | P          | 80 - 120       |
| Dimethomorph        | 100     |         | P          | 80 - 120       |
| Disulfoton          | 97.2    |         | P          | 80 - 120       |
| Dithiopyr           | 103     |         | P          | 80 - 120       |
| EPTC                | 98.3    |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E  
Run ID: A114289  
Included Lab Sample IDs: 2349704

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Ethion              | 105     |         | P          | 80 - 120       |
| Ethoprop            | 103     |         | P          | 80 - 120       |
| Etridiazole         | 98.4    |         | P          | 80 - 120       |
| Fenamiphos          | 105     |         | P          | 80 - 120       |
| Fenbuconazole       | 104     |         | P          | 80 - 120       |
| Fipronil            | 98.6    |         | P          | 80 - 120       |
| Fipronil Desulfinyl | 105     |         | P          | 80 - 120       |
| Fipronil Sulfide    | 106     |         | P          | 80 - 120       |
| Fipronil Sulfone    | 100     |         | P          | 80 - 120       |
| Fluazifop-P-butyl   | 103     |         | P          | 80 - 120       |
| Fludioxonil         | 98.2    |         | P          | 80 - 120       |
| Flumioxazin         | 101     |         | P          | 80 - 120       |
| Flutolanil          | 102     |         | P          | 80 - 120       |
| Fluxapyroxad        | 103     |         | P          | 80 - 120       |
| Fonofos             | 103     |         | P          | 80 - 120       |
| Hexazinone          | 96.0    |         | P          | 80 - 120       |
| Imazalil            | 103     |         | P          | 80 - 120       |
| Iprodione           | 99.2    |         | P          | 80 - 120       |
| Loratadine          | 95.4    |         | P          | 80 - 120       |
| Malathion           | 97.8    |         | P          | 80 - 120       |
| Metalaxyl           | 99.3    |         | P          | 80 - 120       |
| Metolachlor         | 99.0    |         | P          | 80 - 120       |
| Metribuzin          | 101     |         | P          | 80 - 120       |
| Mevinphos           | 98.0    |         | P          | 80 - 120       |
| Molinate            | 101     |         | P          | 80 - 120       |
| Myclobutanil        | 102     |         | P          | 80 - 120       |
| Naled               | 103     |         | P          | 80 - 120       |
| Napropamide         | 105     |         | P          | 80 - 120       |
| Norflurazon         | 98.2    |         | P          | 80 - 120       |
| Oxadiazon           | 103     |         | P          | 80 - 120       |
| Oxyfluorfen         | 99.9    |         | P          | 80 - 120       |
| Parathion Ethyl     | 98.9    |         | P          | 80 - 120       |
| Parathion Methyl    | 97.4    |         | P          | 80 - 120       |
| Pendimethalin       | 95.3    |         | P          | 80 - 120       |
| Phenytoin           | 102     |         | P          | 80 - 120       |
| Phorate             | 102     |         | P          | 80 - 120       |
| Prodiamine          | 105     |         | P          | 80 - 120       |
| Prometon            | 99.1    |         | P          | 80 - 120       |
| Prometryn           | 101     |         | P          | 80 - 120       |
| Pronamide           | 94.7    |         | P          | 80 - 120       |
| Propanil            | 92.8    |         | P          | 80 - 120       |
| Propargite          | 98.8    |         | P          | 80 - 120       |
| Propiconazole       | 100     |         | P          | 80 - 120       |
| Pyraflufen Ethyl    | 98.7    |         | P          | 80 - 120       |
| Pyridaben           | 102     |         | P          | 80 - 120       |
| Pyriproxyfen        | 97.8    |         | P          | 80 - 120       |
| Simazine            | 101     |         | P          | 80 - 120       |
| Stirophos           | 107     |         | P          | 80 - 120       |
| Sulfentrazone       | 99.4    |         | P          | 80 - 120       |
| Tebuconazole        | 102     |         | P          | 80 - 120       |
| Terbufos            | 101     |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E  
Run ID: A114289  
Included Lab Sample IDs: 2349704

| Component     | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------|---------|---------|------------|----------------|
| Terbutylazine | 101     |         | P          | 80 - 120       |
| Thiobencarb   | 99.2    |         | P          | 80 - 120       |
| Triadimefon   | 102     |         | P          | 80 - 120       |

Reference Method: EPA 8270E  
Run ID: A114311  
Included Lab Sample IDs: 2349702, 2349703

| Component          | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------------|---------|---------|------------|----------------|
| Aldrin             | 93.9    |         | P          | 80 - 120       |
| Alpha-BHC          | 97.3    |         | P          | 80 - 120       |
| Alpha-Chlordane    | 98.1    |         | P          | 80 - 120       |
| Beta-BHC           | 92.1    |         | P          | 80 - 120       |
| Beta-Cyfluthrin    | 93.5    |         | P          | 80 - 120       |
| Bifenthrin         | 97.9    |         | P          | 80 - 120       |
| Chlorothalonil     | 92.5    |         | P          | 80 - 120       |
| Cis-Nonachlor      | 107     |         | P          | 80 - 120       |
| Cypermethrin       | 90.9    |         | P          | 80 - 120       |
| Dacthal            | 96.1    |         | P          | 80 - 120       |
| DDD-p,p'           | 98.1    |         | P          | 80 - 120       |
| DDE-p,p'           | 97.6    |         | P          | 80 - 120       |
| DDT-p,p'           | 99.0    |         | P          | 80 - 120       |
| Delta-BHC          | 88.9    |         | P          | 80 - 120       |
| Deltamethrin       | 88.0    |         | P          | 80 - 120       |
| Dichlobenil        | 101     |         | P          | 80 - 120       |
| Dicofol            | 95.0    |         | P          | 80 - 120       |
| Dieldrin           | 100     |         | P          | 80 - 120       |
| Endosulfan I       | 96.6    |         | P          | 80 - 120       |
| Endosulfan II      | 97.9    |         | P          | 80 - 120       |
| Endosulfan Sulfate | 90.4    |         | P          | 80 - 120       |
| Endrin             | 101     |         | P          | 80 - 120       |
| Endrin Aldehyde    | 98.7    |         | P          | 80 - 120       |
| Endrin Ketone      | 102     |         | P          | 80 - 120       |
| Esfenvalerate      | 89.9    |         | P          | 80 - 120       |
| Ethalfuralin       | 94.9    |         | P          | 80 - 120       |
| Fenpropathrin      | 126*    |         | F          | 80 - 120       |
| Gamma-BHC          | 89.3    |         | P          | 80 - 120       |
| Gamma-Chlordane    | 93.7    |         | P          | 80 - 120       |
| Heptachlor         | 97.2    |         | P          | 80 - 120       |
| Heptachlor Epoxide | 101     |         | P          | 80 - 120       |
| Hexachlorobenzene  | 99.3    |         | P          | 80 - 120       |
| Kepone             | 82.2    |         | P          | 80 - 120       |
| Lambda-Cyhalothrin | 96.3    |         | P          | 80 - 120       |
| Methoprene         | 101     |         | P          | 80 - 120       |
| Methoxychlor       | 85.3    |         | P          | 80 - 120       |
| MGK-264            | 98.3    |         | P          | 80 - 120       |
| Mirex              | 99.6    |         | P          | 80 - 120       |
| Oxychlordane       | 98.7    |         | P          | 80 - 120       |
| Permethrin         | 95.0    |         | P          | 80 - 120       |
| Phenothrin         | 93.3    |         | P          | 80 - 120       |
| Piperonyl Butoxide | 96.2    |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114311

Included Lab Sample IDs: 2349702, 2349703

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Prallethrin      | 96.9    |         | P          | 80 - 120       |
| Tau-Fluvalinate  | 93.6    |         | P          | 80 - 120       |
| Tetramethrin     | 92.0    |         | P          | 80 - 120       |
| Trans-Nonachlor  | 108     |         | P          | 80 - 120       |
| Triclosan Methyl | 96.2    |         | P          | 80 - 120       |
| Trifluralin      | 97.8    |         | P          | 80 - 120       |

Reference Method: EPA 8270E

Run ID: A114363

Included Lab Sample IDs: 2349702, 2349703

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| PCB-1016  | 102     |         | P          | 80 - 120       |
| PCB-1260  | 97.1    |         | P          | 80 - 120       |

Reference Method: EPA 8321B

Run ID: A114369

Included Lab Sample IDs: 2349699

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| 3-Hydroxycarbofuran | 97.7    | 99.8    | P/P        | 60 - 150       |
| Aldicarb            | 127     | 99.8    | P/P        | 60 - 150       |
| Aldicarb Sulfone    | 102     | 102     | P/P        | 50 - 150       |
| Aldicarb Sulfoxide  | 97.4    | 98.6    | P/P        | 50 - 150       |
| Carbaryl            | 89.8    | 101     | P/P        | 60 - 150       |
| Carbofuran          | 91.0    | 113     | P/P        | 50 - 150       |
| Methiocarb          | 93.8    | 113     | P/P        | 50 - 150       |
| Methomyl            | 95.1    | 96.8    | P/P        | 50 - 150       |
| Oxamyl              | 95.4    | 100     | P/P        | 50 - 150       |
| Propoxur            | 106     | 106     | P/P        | 50 - 150       |

Reference Method: EPA 8321B

Run ID: A114375

Included Lab Sample IDs: 2349700

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| 2,4-D            | 116     | 106     | P/P        | 50 - 150       |
| 2,4,5-T          | 102     | 93.3    | P/P        | 50 - 150       |
| Acetaminophen    | 114     | 100     | P/P        | 60 - 160       |
| Acetamiprid      | 140     | 108     | P/P        | 50 - 150       |
| Afidopyropen     | 96.9    | 102     | P/P        | 50 - 150       |
| Bentazon         | 110     | 86.4    | P/P        | 50 - 160       |
| Benzovindiflupyr | 117     | 114     | P/P        | 50 - 150       |
| Carbamazepine    | 118     | 102     | P/P        | 60 - 150       |
| Clothianidin     | 111     | 109     | P/P        | 60 - 150       |
| Dinotefuran      | 121     | 108     | P/P        | 50 - 150       |
| Diuron           | 113     | 116     | P/P        | 60 - 160       |
| Fenuron          | 120     | 110     | P/P        | 60 - 150       |
| Fluridone        | 114     | 121     | P/P        | 60 - 160       |
| Hydrocodone      | 118     | 102     | P/P        | 60 - 150       |
| Ibuprofen        | 79.5    | 110     | P/P        | 50 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B  
Run ID: A114375  
Included Lab Sample IDs: 2349700

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Imazapyr       | 108     | 93.5    | P/P        | 50 - 150       |
| Imidacloprid   | 134     | 101     | P/P        | 60 - 150       |
| Linuron        | 106     | 111     | P/P        | 60 - 150       |
| Mandestrobin   | 126     | 99.5    | P/P        | 50 - 150       |
| MCPP           | 91.7    | 101     | P/P        | 50 - 150       |
| Naproxen       | 61.7    | 81.3    | P/P        | 50 - 160       |
| Primidone      | 97.0    | 94.6    | P/P        | 60 - 150       |
| Pyraclostrobin | 114     | 111     | P/P        | 60 - 150       |
| Silvex         | 97.1    | 117     | P/P        | 50 - 150       |
| Thiamethoxam   | 121     | 106     | P/P        | 50 - 150       |
| Tolfenpyrad    | 120     | 104     | P/P        | 60 - 150       |
| Triclopyr      | 97.2    | 82.9    | P/P        | 50 - 150       |

Reference Method: EPA 8276  
Run ID: A114391  
Included Lab Sample IDs: 2349702, 2349703

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chlordane | 99.1    |         | P          | 80 - 120       |
| Toxaphene | 96.7    |         | P          | 80 - 120       |

Reference Method: EPA 8270E  
Run ID: A114409  
Included Lab Sample IDs: 2349704

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Azoxystrobin | 98.0    |         | P          | 80 - 120       |

\* Pass/Fail determinations are made for each bracketing calibration verification check.  
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.  
Where they are different, both control limits are provided.

## Quality Assurance Report Summary

| Ref. Method        | Analyte                                               | LCS % Recovery | MS % Recovery |      |      | Precision<br>SMP | MS     |
|--------------------|-------------------------------------------------------|----------------|---------------|------|------|------------------|--------|
|                    |                                                       |                | LCS           |      |      |                  |        |
| EPA 200.7 Rev. 4.4 | Calcium                                               | 93.0           | 98.8          | 97.7 |      |                  | 0.204  |
|                    | Iron                                                  | 96.7           | 104           | 104  | 101  |                  | 0.176  |
|                    | Magnesium                                             | 95.9           | 104           | 103  | 97.8 |                  | 0.811  |
|                    | Potassium                                             | 96.2           | 101           | 104  | 98.9 |                  | 2.21   |
|                    | Sodium                                                | 93.3           | 97.4          | 96.9 |      |                  | 0.401  |
|                    | Strontium                                             | 98.3           | 103           | 106  | 102  |                  | 2.13   |
|                    | Tin                                                   | 96.0           | 100           | 103  | 98.9 |                  | 2.26   |
|                    | Titanium                                              | 97.5           | 101           | 105  | 100  |                  | 3.42   |
|                    | Vanadium                                              | 96.8           | 102           | 104  | 102  |                  | 1.95   |
|                    | Zinc                                                  | 96.5           | 101           | 102  | 98.5 |                  | 1.36   |
|                    |                                                       |                |               |      |      |                  |        |
| EPA 200.8 Rev. 5.4 | Aluminum                                              | 102            | 104           | 111  | 113  |                  | 1.57   |
|                    | Antimony                                              | 106            | 106           | 107  | 105  |                  | 2.43   |
|                    | Arsenic                                               | 103            | 102           | 103  | 102  |                  | 1.29   |
|                    | Barium                                                | 108            | 105           | 110  | 106  |                  | 2.83   |
|                    | Beryllium                                             | 97.0           | 95.3          | 98.6 | 96.8 |                  | 1.80   |
|                    | Boron                                                 | 98.7           | 101           | 107  | 105  |                  | 1.21   |
|                    | Cadmium                                               | 103            | 103           | 102  | 99.7 |                  | 2.14   |
|                    | Chromium                                              | 103            | 104           | 106  | 104  |                  | 2.48   |
|                    | Cobalt                                                | 101            | 99.5          | 100  | 98.6 |                  | 1.82   |
|                    | Copper                                                | 99.4           | 94.6          | 98.7 | 97.0 |                  | 1.67   |
|                    | Lead                                                  | 97.1           | 96.9          | 98.9 | 97.7 |                  | 1.26   |
|                    | Manganese                                             | 104            | 102           | 117  | 109  |                  | 2.43   |
|                    | Molybdenum                                            | 101            | 102           | 102  | 102  |                  | 0.552  |
|                    | Nickel                                                | 101            | 99.2          | 101  | 98.9 |                  | 2.20   |
|                    | Selenium                                              | 103            | 99.6          | 99.3 | 96.4 |                  | 2.98   |
|                    | Silver                                                | 102            | 102           | 102  | 99.8 |                  | 1.84   |
|                    | Thallium                                              | 98.5           | 99.9          | 102  | 102  |                  | 0.0532 |
|                    |                                                       |                |               |      |      |                  |        |
|                    |                                                       |                |               |      |      |                  |        |
| EPA 8270E          | 2-Ethylhexyl<br>2,3,4,5-tetrabromobenzoate<br>(EHTBB) | 94.1           | 121           | 126  |      |                  | 4.62   |
|                    | Acetochlor                                            | 90.4           | 82.3          | 101  |      |                  | 20.4   |
|                    | Alachlor                                              | 82.5           | 70.4          | 89.7 |      |                  | 24.1   |
|                    | Aldrin                                                | 44.2           | 48.6          | 54.8 |      |                  | 12.0   |
|                    | Alpha-BHC                                             | 93.9           | 84.2          | 96.5 |      |                  | 13.6   |
|                    | Alpha-Chlordane                                       | 72.7           | 64.9          | 74.0 |      |                  | 13.1   |
|                    | Ametryn                                               | 93.7           | 67.9          | 66.2 |      |                  | 1.12   |
|                    | Atrazine                                              | 90.5           |               |      |      |                  | 3.06   |
|                    | Atrazine Desethyl                                     | 63.5           | 53.6          | 57.8 |      |                  | 3.60   |
|                    | Avobenzone                                            | 88.9           | 95.6          | 99.9 |      |                  | 4.40   |
|                    | Azinphos Methyl                                       | 98.1           | 87.3          | 96.3 |      |                  | 9.80   |
|                    | Azoxystrobin                                          | 97.1           | 93.8          | 116  |      |                  | 14.7   |
|                    | Beta-BHC                                              | 116            | 103           | 122  |      |                  | 16.3   |
|                    | Beta-Cyfluthrin                                       | 71.2           | 63.4          | 71.0 |      |                  | 11.3   |
|                    | Bifenthrin                                            | 50.7           | 45.9          | 49.1 |      |                  | 6.64   |
|                    | Bromacil                                              | 79.4           | 80.8          | 86.6 |      |                  | 6.94   |
|                    | Butylate                                              | 37.2           | 29.6          | 30.2 |      |                  | 2.07   |
|                    | Caffeine                                              | 83.4           | 98.5          | 98.3 |      |                  | 0.242  |
|                    | Carbophenothion                                       | 81.2           | 71.5          | 76.5 |      |                  | 6.85   |
|                    | Carfentrazone Ethyl                                   | 89.9           | 77.3          | 82.9 |      |                  | 6.96   |
|                    | Chlorfenapyr                                          | 85.8           | 67.8          | 74.3 |      |                  | 9.15   |
|                    | Chlorothalonil                                        | 71.3           | 71.1          | 79.0 |      |                  | 10.5   |
|                    | Chlorpyrifos Ethyl                                    | 88.8           | 98.0          | 99.4 |      |                  | 1.42   |
|                    | Chlorpyrifos Methyl                                   | 92.7           | 84.0          | 96.0 |      |                  | 13.4   |
|                    | Cis-Nonachlor                                         | 74.2           | 64.2          | 76.7 |      |                  | 17.7   |

## Quality Assurance Report Summary

| Ref. Method | Analyte             | LCS % Recovery | MS % Recovery |      | LCS | Precision | MS     |
|-------------|---------------------|----------------|---------------|------|-----|-----------|--------|
|             |                     |                |               |      |     | SMP       |        |
| EPA 8270E   | Coumaphos           | 87.5           | 75.2          | 84.6 |     |           | 11.8   |
|             | Cyanazine           | 82.6           | 78.4          | 82.3 |     |           | 4.83   |
|             | Cypermethrin        | 73.6           | 61.4          | 68.9 |     |           | 11.6   |
|             | Cyprodinil          | 85.1           | 76.2          | 85.9 |     |           | 12.0   |
|             | Dacthal             | 89.9           | 82.2          | 98.8 |     |           | 18.4   |
|             | DDD-p,p'            | 68.0           | 63.1          | 72.2 |     |           | 13.4   |
|             | DDE-p,p'            | 67.7           | 65.0          | 72.3 |     |           | 10.6   |
|             | DDT-p,p'            | 69.0           | 61.4          | 68.7 |     |           | 11.3   |
|             | Dechlorane Plus     | 112            | 139           | 133  |     |           | 4.39   |
|             | Delta-BHC           | 118            | 105           | 132  |     |           | 22.4   |
|             | Deltamethrin        | 77.2           | 62.9          | 74.6 |     |           | 17.0   |
|             | Demeton             | 69.5           | 72.9          | 83.4 |     |           | 13.5   |
|             | Diazinon            | 84.5           | 77.4          | 92.3 |     |           | 17.5   |
|             | Dichlobenil         | 93.2           | 86.6          | 97.6 |     |           | 11.9   |
|             | Dicofol             | 72.2           | 64.5          | 75.4 |     |           | 15.6   |
|             | Dieldrin            | 75.9           | 67.9          | 80.5 |     |           | 17.0   |
|             | Difenoconazole      | 102            | 97.8          | 115  |     |           | 16.3   |
|             | Dimethenamid        | 70.5           | 68.9          | 81.6 |     |           | 16.9   |
|             | Dimethomorph        | 83.7           | 96.2          | 106  |     |           | 9.90   |
|             | Disulfoton          | 81.9           | 78.6          | 91.3 |     |           | 14.9   |
|             | Dithiopyr           | 92.5           | 61.3          | 73.6 |     |           | 13.7   |
|             | Endosulfan I        | 76.0           | 70.5          | 86.3 |     |           | 20.1   |
|             | Endosulfan II       | 74.9           | 68.8          | 81.2 |     |           | 16.6   |
|             | Endosulfan Sulfate  | 90.8           | 76.2          | 84.0 |     |           | 9.64   |
|             | Endrin              | 75.0           | 71.0          | 83.3 |     |           | 16.0   |
|             | Endrin Aldehyde     | 83.7           | 73.1          | 77.3 |     |           | 5.65   |
|             | Endrin Ketone       | 87.8           | 78.5          | 92.3 |     |           | 16.2   |
|             | EPTC                | 33.9           | 28.7          | 24.8 |     |           | 14.4   |
|             | Esfenvalerate       | 71.0           | 59.1          | 69.5 |     |           | 16.1   |
|             | Ethalfuralin        | 70.2           | 64.9          | 75.1 |     |           | 14.6   |
|             | Ethion              | 91.8           | 73.6          | 70.4 |     |           | 4.40   |
|             | Ethoprop            | 72.6           | 79.1          | 91.2 |     |           | 14.2   |
|             | Etridiazole         | 38.7           | 37.5          | 37.5 |     |           | 0.0601 |
|             | Fenamiphos          | 86.6           | 70.7          | 72.2 |     |           | 2.10   |
|             | Fenbuconazole       | 89.1           | 74.7          | 83.0 |     |           | 10.5   |
|             | Fenpropathrin       | 99.0           | 94.5          | 109  |     |           | 14.2   |
|             | Fipronil            | 86.5           | 74.9          | 92.7 |     |           | 19.3   |
|             | Fipronil Desulfinyl | 94.5           | 94.7          | 105  |     |           | 6.80   |
|             | Fipronil Sulfide    | 81.5           | 76.5          | 94.1 |     |           | 13.4   |
|             | Fipronil Sulfone    | 76.8           |               |      |     |           | 11.4   |
|             | Fluazifop-P-butyl   | 90.9           | 78.0          | 86.9 |     |           | 10.8   |
|             | Fludioxonil         | 81.1           | 72.2          | 89.5 |     |           | 21.4   |
|             | Flumioxazin         | 106            | 98.0          | 125  |     |           | 24.4   |
|             | Flutolanil          | 86.7           | 51.2          | 63.1 |     |           | 16.3   |
|             | Fluxapyroxad        | 80.1           | 72.0          | 83.5 |     |           | 10.6   |
|             | Fonofos             | 79.1           | 81.9          | 85.8 |     |           | 4.66   |
|             | Gamma-BHC           | 95.3           | 89.1          | 106  |     |           | 17.5   |
|             | Gamma-Chlordane     | 69.6           | 62.9          | 69.1 |     |           | 9.40   |
|             | Heptachlor          | 63.5           | 59.5          | 65.0 |     |           | 8.88   |
|             | Heptachlor Epoxide  | 76.4           | 71.8          | 87.1 |     |           | 19.3   |
|             | Hexachlorobenzene   | 73.2           | 68.6          | 77.6 |     |           | 12.4   |
|             | Hexazinone          | 84.4           | 90.0          | 100  |     |           | 10.9   |
|             | Imazalil            | 77.3           | 80.4          | 77.0 |     |           | 4.33   |
|             | Iprodione           | 85.2           | 70.8          | 80.1 |     |           | 12.3   |

## Quality Assurance Report Summary

| Ref. Method | Analyte            | LCS % Recovery | MS % Recovery |      | LCS | Precision | MS    |
|-------------|--------------------|----------------|---------------|------|-----|-----------|-------|
|             |                    |                |               |      |     | SMP       |       |
| EPA 8270E   | Kepone             | 123            | 116           | 125  |     |           | 7.82  |
|             | Lambda-Cyhalothrin | 62.9           | 55.1          | 62.3 |     |           | 12.2  |
|             | Loratadine         | 80.4           | 91.6          | 102  |     |           | 10.4  |
|             | Malathion          | 98.1           | 91.5          | 103  |     |           | 12.1  |
|             | Metalaxyl          | 83.8           | 74.4          | 82.4 |     |           | 10.2  |
|             | Methoprene         | 64.4           | 53.9          | 60.9 |     |           | 12.2  |
|             | Methoxychlor       | 68.1           | 61.0          | 74.2 |     |           | 19.5  |
|             | Metolachlor        | 81.4           | 76.3          | 92.7 |     |           | 12.9  |
|             | Metribuzin         | 96.3           | 93.8          | 117  |     |           | 22.0  |
|             | Mevinphos          | 64.0           | 67.7          | 74.7 |     |           | 9.87  |
|             | MGK-264            | 80.5           | 77.8          | 92.0 |     |           | 16.8  |
|             | Mirex              | 52.2           | 51.7          | 56.2 |     |           | 8.32  |
|             | Molinate           | 48.9           | 49.0          | 52.1 |     |           | 6.03  |
|             | Myclobutanil       | 87.2           | 92.4          | 114  |     |           | 11.1  |
|             | Naled              | 75.7           | 73.9          | 105  |     |           | 34.4  |
|             | Napropamide        | 76.7           | 63.3          | 73.8 |     |           | 15.3  |
|             | Norflurazon        | 77.8           | 65.1          | 78.1 |     |           | 18.1  |
|             | Octinoxate         | 91.3           | 103           | 110  |     |           | 6.95  |
|             | Oxadiazon          | 71.7           |               |      |     |           | 6.63  |
|             | Oxybenzone         | 82.7           | 107           | 106  |     |           | 1.29  |
|             | Oxychlordane       | 72.2           | 70.1          | 80.8 |     |           | 14.2  |
|             | Oxyfluorfen        | 98.7           | 90.1          | 106  |     |           | 16.5  |
|             | Parathion Ethyl    | 90.6           | 87.9          | 101  |     |           | 13.9  |
|             | Parathion Methyl   | 98.7           | 96.2          | 115  |     |           | 17.8  |
|             | PBDE-47            | 91.9           | 108           | 114  |     |           | 5.50  |
|             | PBDE-99            | 95.6           | 106           | 111  |     |           | 5.21  |
|             | PCB-1016           | 74.3           | 98.3          | 81.9 |     |           | 18.2  |
|             | PCB-1260           | 72.3           | 92.3          | 82.4 |     |           | 11.3  |
|             | Pendimethalin      | 94.0           | 100           | 114  |     |           | 13.0  |
|             | Permethrin         | 72.5           | 62.5          | 68.4 |     |           | 9.05  |
|             | Phenothrin         | 50.3           | 47.4          | 53.6 |     |           | 12.3  |
|             | Phenytoin          | 49.2           | 36.8          | 45.7 |     |           | 21.5  |
|             | Phorate            | 68.0           | 68.4          | 78.3 |     |           | 13.5  |
|             | Piperonyl Butoxide | 95.7           | 83.7          | 101  |     |           | 19.2  |
|             | Prallethrin        | 64.2           | 68.1          | 73.8 |     |           | 7.92  |
|             | Prodiamine         | 42.3           | 48.8          | 53.2 |     |           | 8.63  |
|             | Prometon           | 75.0           | 74.7          | 72.5 |     |           | 3.00  |
|             | Prometryn          | 81.6           | 73.1          | 77.4 |     |           | 5.77  |
|             | Pronamide          | 93.2           | 77.9          | 91.8 |     |           | 16.3  |
|             | Propanil           | 83.7           | 68.8          | 86.9 |     |           | 23.2  |
|             | Propargite         | 76.4           | 52.5          | 59.7 |     |           | 12.9  |
|             | Propiconazole      | 77.6           | 74.6          | 95.0 |     |           | 15.2  |
|             | Pyraflufen Ethyl   | 77.9           | 64.9          | 72.8 |     |           | 11.5  |
|             | Pyridaben          | 91.4           | 101           | 96.8 |     |           | 4.00  |
|             | Pyriproxyfen       | 81.9           | 61.4          | 76.5 |     |           | 21.8  |
|             | Simazine           | 84.2           |               |      |     |           | 0.368 |
|             | Stirophos          | 80.2           | 61.7          | 64.9 |     |           | 5.16  |
|             | Sulfentrazone      | 70.8           | 84.1          | 113  |     |           | 15.6  |
|             | Tau-Fluvalinate    | 63.8           | 57.0          | 61.6 |     |           | 7.79  |
|             | Tebuconazole       | 65.7           | 49.6          | 54.6 |     |           | 8.02  |
|             | Terbufos           | 93.7           | 98.3          | 113  |     |           | 14.1  |
|             | Terbuthylazine     | 85.6           | 82.6          | 95.1 |     |           | 14.0  |
|             | Tetramethrin       | 73.7           | 72.4          | 86.5 |     |           | 17.9  |
|             | Thiobencarb        | 80.6           | 67.9          | 79.3 |     |           | 15.5  |

## Quality Assurance Report Summary

| Ref. Method | Analyte                | LCS % Recovery | MS % Recovery |      | Precision<br>LCS | SMP | MS    |
|-------------|------------------------|----------------|---------------|------|------------------|-----|-------|
|             |                        |                |               |      |                  |     |       |
| EPA 8270E   | Trans-Nonachlor        | 77.2           | 72.4          | 78.0 |                  |     | 7.39  |
|             | Tri-o-cresyl Phosphate | 91.8           | 96.2          | 101  |                  |     | 4.42  |
|             | Triadimefon            | 85.3           | 67.3          | 77.9 |                  |     | 14.6  |
|             | Triclosan Methyl       | 76.3           | 71.4          | 81.3 |                  |     | 12.9  |
|             | Trifluralin            | 71.2           | 64.8          | 76.3 |                  |     | 16.3  |
| EPA 8276    | Chlordane              | 79.5           | 115           | 106  |                  |     | 8.62  |
|             | Toxaphene              | 84.3           | 132           | 118  |                  |     | 11.5  |
| EPA 8321B   | 2,4-D                  | 112            | 103           | 76.1 |                  |     | 29.2  |
|             | 2,4,5-T                | 94.3           | 77.8          | 101  |                  |     | 26.2  |
|             | 3-Hydroxycarbofuran    | 84.9           | 88.2          | 96.2 |                  |     | 8.72  |
|             | Acesulfame K           | 93.5           | 79.1          | 90.9 |                  |     | 13.8  |
|             | Acetaminophen          | 93.8           | 110           | 99.8 |                  |     | 10.2  |
|             | Acetamiprid            | 105            | 77.5          | 77.8 |                  |     | 0.394 |
|             | Afidopyropen           | 89.4           | 24.4          | 28.2 |                  |     | 14.5  |
|             | Aldicarb               | 62.2           | 63.5          | 54.5 |                  |     | 15.3  |
|             | Aldicarb Sulfone       | 92.3           | 86.0          | 94.5 |                  |     | 9.46  |
|             | Aldicarb Sulfoxide     | 86.8           | 44.4          | 42.8 |                  |     | 3.89  |
|             | AMPA                   | 111            | 103           | 98.5 |                  |     | 4.26  |
|             | Bentazon               | 106            | 108           | 91.8 |                  |     | 16.6  |
|             | Benzovindiflupyr       | 96.9           | 102           | 103  |                  |     | 1.22  |
|             | Carbamazepine          | 82.2           | 81.8          | 101  |                  |     | 21.4  |
|             | Carbaryl               | 86.0           | 73.3          | 72.1 |                  |     | 1.62  |
|             | Carbofuran             | 77.9           | 76.3          | 79.0 |                  |     | 3.48  |
|             | Clothianidin           | 101            | 92.0          | 83.0 |                  |     | 10.3  |
|             | Dinotefuran            | 104            | 130           | 116  |                  |     | 11.0  |
|             | Diuron                 | 98.3           | 108           | 101  |                  |     | 6.71  |
|             | Endothall              | 108            | 127           | 131  |                  |     | 2.83  |
|             | Fenuron                | 115            | 119           | 108  |                  |     | 9.60  |
|             | Fluridone              | 104            | 90.4          | 77.2 |                  |     | 15.7  |
|             | Glufosinate            | 117            | 103           | 102  |                  |     | 0.409 |
|             | Glyphosate             | 109            | 110           | 107  |                  |     | 3.07  |
|             | Hydrocodone            | 120            | 39.9          | 38.7 |                  |     | 3.17  |
|             | Ibuprofen              | 96.9           | 73.0          | 64.9 |                  |     | 11.7  |
|             | Imazapyr               | 112            | 136           | 109  |                  |     | 14.5  |
|             | Imidacloprid           | 91.4           | 81.2          | 75.9 |                  |     | 6.73  |
|             | Linuron                | 105            | 99.9          | 98.2 |                  |     | 1.69  |
|             | Mandestrobin           | 113            | 117           | 94.7 |                  |     | 20.8  |
|             | MCPP                   | 119            | 81.8          | 86.5 |                  |     | 5.57  |
|             | Methiocarb             | 73.8           | 70.4          | 89.8 |                  |     | 24.1  |
|             | Methomyl               | 82.3           | 77.9          | 79.9 |                  |     | 2.45  |
|             | Naproxen               | 144            | 68.7          | 83.2 |                  |     | 19.0  |
|             | Oxamyl                 | 91.7           | 87.0          | 92.4 |                  |     | 6.07  |
|             | Primidone              | 83.6           | 64.3          | 57.7 |                  |     | 10.8  |
|             | Propoxur               | 90.7           | 82.3          | 82.7 |                  |     | 0.492 |
|             | Pyraclostrobin         | 97.8           | 110           | 99.6 |                  |     | 9.59  |
|             | Silvex                 | 107            | 76.0          | 85.8 |                  |     | 12.2  |
|             | Sucralose              | 107            | 93.0          | 109  |                  |     | 15.2  |
|             | Thiamethoxam           | 114            | 128           | 97.6 |                  |     | 27.1  |
|             | Tolfenpyrad            | 85.3           | 67.8          | 69.1 |                  |     | 1.91  |
|             | Triclopyr              | 81.1           | 89.6          | 72.3 |                  |     | 21.3  |

## Reference Method Descriptions

| Method             | Description                                                                                                               | <u>Associated Samples</u> |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------|
| EPA 200.7 Rev. 4.4 | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 2349706, 2349707          |
| EPA 200.8 Rev. 5.4 | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    | 2349706, 2349707          |
| EPA 8270E          | Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM                                                | 2349704                   |
| EPA 8270E          | Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS                                          | 2349702, 2349703          |
| EPA 8270E          | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                                                    | 2349704                   |
| EPA 8270E          | PCBs in water matrices by GC/MS/MS                                                                                        | 2349702, 2349703          |
| EPA 8276           | Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization                                    | 2349702, 2349703          |
| EPA 8321B          | Carbamates in water matrices by HPLC/MS/MS                                                                                | 2349699                   |
| EPA 8321B          | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                               | 2349700                   |
| SM 2340 B-2011     | Hardness by calculation, in aqueous matrices, reported as mg/L CaCO <sub>3</sub>                                          | 2349706, 2349707          |

## Preparation and Analysis Log

| Ref. Method        | Received Date | Prep Date/Time   | Prepared By      | Analysis Date/Time | Analyzed By        | Associated Samples |
|--------------------|---------------|------------------|------------------|--------------------|--------------------|--------------------|
| EPA 200.7 Rev. 4.4 | 08/16/2022    | 08/17/2022 11:10 | Megan Whitefoot  | 08/22/2022 23:17   | Alexander Thompson | 2349706            |
|                    | 08/16/2022    | 08/17/2022 11:10 | Megan Whitefoot  | 08/22/2022 23:25   | Alexander Thompson | 2349707            |
| EPA 200.8 Rev. 5.4 | 08/16/2022    | 08/17/2022 11:10 | Megan Whitefoot  | 08/19/2022 17:16   | Emily M Philpot    | 2349706            |
|                    | 08/16/2022    | 08/17/2022 11:10 | Megan Whitefoot  | 08/19/2022 17:25   | Emily M Philpot    | 2349707            |
|                    | 08/16/2022    | 08/17/2022 11:10 | Megan Whitefoot  | 08/22/2022 14:46   | Alexander Thompson | 2349706            |
|                    | 08/16/2022    | 08/17/2022 11:10 | Megan Whitefoot  | 08/22/2022 14:52   | Alexander Thompson | 2349707            |
|                    | 08/16/2022    | 08/17/2022 11:10 | Megan Whitefoot  | 08/22/2022 22:51   | Lipi Saha          | 2349704            |
| EPA 8270E          | 08/16/2022    | 08/17/2022 08:30 | Rasheda Ghaffari | 08/23/2022 22:50   | Michael Poppell    | 2349704            |
|                    | 08/16/2022    | 08/17/2022 08:30 | Rasheda Ghaffari | 08/29/2022 02:43   | Michael Poppell    | 2349704            |
|                    | 08/16/2022    | 08/22/2022 08:00 | Fe-Val Siddell   | 08/24/2022 18:43   | Vandana T. Nagar   | 2349702            |
|                    | 08/16/2022    | 08/22/2022 08:00 | Fe-Val Siddell   | 08/24/2022 19:13   | Vandana T. Nagar   | 2349703            |
|                    | 08/16/2022    | 08/22/2022 08:00 | Fe-Val Siddell   | 08/25/2022 22:35   | Julie Wi           | 2349702            |
|                    | 08/16/2022    | 08/22/2022 08:00 | Fe-Val Siddell   | 08/25/2022 23:05   | Julie Wi           | 2349703            |
|                    | 08/16/2022    | 08/22/2022 08:00 | Fe-Val Siddell   | 08/26/2022 11:55   | Arthur Maknenko    | 2349702            |
| EPA 8276           | 08/16/2022    | 08/22/2022 08:00 | Fe-Val Siddell   | 08/26/2022 12:52   | Arthur Maknenko    | 2349703            |
|                    | 08/16/2022    | 08/17/2022 09:00 | Hoor Shaik       | 08/18/2022 04:52   | Juyoung Kim        | 2349700            |
| EPA 8321B          | 08/16/2022    | 08/19/2022 09:00 | Umesh Chiluwal   | 08/19/2022 11:11   | Umesh Chiluwal     | 2349700            |
|                    | 08/16/2022    | 08/19/2022 09:00 | Umesh Chiluwal   | 08/19/2022 19:39   | Umesh Chiluwal     | 2349700            |
|                    | 08/16/2022    | 08/23/2022 09:30 | June Rhew        | 08/26/2022 05:52   | Juyoung Kim        | 2349699            |
| SM 2340 B-2011     | 08/16/2022    |                  |                  | 08/22/2022 23:17   | Alexander Thompson | 2349706            |
|                    | 08/16/2022    |                  |                  | 08/22/2022 23:25   | Alexander Thompson | 2349707            |