

# Chemical Analysis Report

**NE-DIST-2019-02-09-01**

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

Event Description: **LSJR West Boat**  
Request ID: **RQ-2019-02-04-22**  
Customer: **NE-DIST**  
Project ID: **SMP**

Send Reports to:  
FL Dept. of Environmental Protection  
8800 Baymeadows Way West  
Suite 100  
Jacksonville, FL 32256  
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 28-FEB-2019 14:39

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

**NON-CONFORMANCE REPORT INCLUDED**

## 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, Nutrients 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: GOODBYS CR @ SR-13

Collection Date/Time: 02/07/2019 12:05

Field ID: 20030518

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2061372   | EPA 180.1 Rev. 2.0           | Turbidity         | 3.0    | Q    | NTU        | P358679  |          |
|           | EPA 300.0                    | Bromide           | 0.33   |      | mg Br/L    | P358982  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 64     |      | mg CaCO3/L | P359115  |          |
|           | SM 2540 D-97                 | TSS               | 2      | I    | mg/L       | P359152  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.095  | I    | mg F/L     | P359120  |          |
| 2061373   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.025  |      | mg N/L     | P359056  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.60   |      | mg N/L     | P358835  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.24   |      | mg N/L     | P358940  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.081  |      | mg P/L     | P358858  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 16     |      | mg C/L     | P359417  |          |
| 2061374   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.054  | Q    | mg P/L     | P358814  |          |
| 2061400   | EPA 200.7 Rev. 4.4           | Iron              | 430    |      | ug/L       | P358715  |          |
|           |                              | Manganese         | 7.1    |      | ug/L       | P358715  |          |
|           |                              | Zinc              | 5.0    | U    | ug/L       | P358715  |          |
|           | EPA 200.8 Rev. 5.4           | Aluminum          | 88     |      | ug/L       | P358715  |          |
|           |                              | Antimony          | 0.071  | I    | ug/L       | P358715  |          |
|           |                              | Arsenic           | 1.00   |      | ug/L       | P358715  |          |
|           |                              | Cadmium           | 0.020  | U    | ug/L       | P358715  |          |
|           |                              | Chromium          | 0.45   | I    | ug/L       | P358715  |          |
|           |                              | Copper            | 1.06   |      | ug/L       | P358715  |          |
|           |                              | Lead              | 0.39   | I    | ug/L       | P358715  |          |
|           |                              | Nickel            | 0.50   | U    | ug/L       | P358715  |          |
|           |                              | Selenium          | 0.20   | U    | ug/L       | P358715  |          |
|           |                              | Silver            | 0.010  | U    | ug/L       | P358715  |          |
|           |                              | Thallium          | 0.10   | U    | ug/L       | P358715  |          |

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt.

Sample Location: GOODBYS CR AT BAYMEADOWS

Collection Date/Time: 02/07/2019 11:50

Field ID: 20030593

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result  | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|---------|------|------------|----------|----------|
| 2061375   | EPA 180.1 Rev. 2.0           | Turbidity         | 5.8     | Q    | NTU        | P358679  |          |
|           | EPA 300.0                    | Bromide           | 0.17    |      | mg Br/L    | P358982  |          |
|           | SM 2120 B                    | Color (true)      | 70      | AQ   | PCU        | P358809  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 88      |      | mg CaCO3/L | P359115  |          |
|           | SM 2540 D-97                 | TSS               | 4       | I    | mg/L       | P359152  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.099   | I    | mg F/L     | P359120  |          |
| 2061376   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.025   |      | mg N/L     | P359056  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.63    |      | mg N/L     | P359302  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.10    |      | mg N/L     | P358940  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.073   |      | mg P/L     | P358858  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 11      |      | mg C/L     | P359417  |          |
| 2061377   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.024   | Q    | mg P/L     | P358814  |          |
| 2061399   | EPA 8321B                    | 2,4-D             | 0.058   |      | ug/L       | P358573  |          |
|           |                              | Acesulfame K**    | 0.10    | U    | ug/L       | P358749  |          |
|           |                              | AMPA**            | 0.10    | UQ   | ug/L       | P358749  |          |
|           |                              | Sucralose**       | 0.19    |      | ug/L       | P358749  |          |
|           |                              | Acetaminophen**   | 0.0080  | U    | ug/L       | P358573  |          |
|           |                              | Endothall**       | 0.25    | U    | ug/L       | P358749  | MS       |
|           |                              | Glufosinate**     | 0.10    | UQ   | ug/L       | P358749  |          |
|           |                              | Bentazon          | 0.035   |      | ug/L       | P358573  |          |
|           |                              | Glyphosate**      | 0.13    | IQ   | ug/L       | P358749  |          |
|           |                              | Carbamazepine**   | 8.0E-04 | U    | ug/L       | P358573  |          |
|           |                              | Diuron            | 0.0062  | I    | ug/L       | P358573  |          |
|           |                              | Fenuron           | 0.020   | I    | ug/L       | P358573  |          |
|           |                              | Imazapyr**        | 0.32    |      | ug/L       | P358573  |          |
|           |                              | Imidacloprid      | 0.039   |      | ug/L       | P358573  | MS       |
|           |                              | Linuron           | 0.0040  | U    | ug/L       | P358573  |          |
|           |                              | MCPP              | 0.0074  | I    | ug/L       | P358573  |          |
|           |                              | Primidone**       | 0.0040  | U    | ug/L       | P358573  |          |
|           |                              | Pyraclostrobin**  | 0.0020  | U    | ug/L       | P358573  |          |
|           |                              | Triclopyr**       | 0.0040  | U    | ug/L       | P358573  |          |
|           |                              | Fluridone**       | 0.014   |      | ug/L       | P358573  |          |
|           |                              | Hydrocodone**     | 0.0020  | U    | ug/L       | P358573  |          |
|           |                              | Naproxen**        | 0.0080  | U    | ug/L       | P358573  |          |
|           |                              | Ibuprofen**       | 0.020   | U    | ug/L       | P358573  |          |
| 2061401   | EPA 200.7 Rev. 4.4           | Iron              | 890     |      | ug/L       | P358715  |          |
|           |                              | Manganese         | 17.3    |      | ug/L       | P358715  |          |
|           |                              | Zinc              | 5.0     | U    | ug/L       | P358715  |          |
|           | EPA 200.8 Rev. 5.4           | Aluminum          | 90      |      | ug/L       | P358715  |          |
|           |                              | Antimony          | 0.13    | I    | ug/L       | P358715  |          |
|           |                              | Arsenic           | 1.51    |      | ug/L       | P358715  |          |
|           |                              | Cadmium           | 0.020   | U    | ug/L       | P358715  |          |
|           |                              | Chromium          | 0.48    | I    | ug/L       | P358715  |          |

Field ID: 20030593

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|-----------|--------|------|-------|----------|----------|
| 2061401   | EPA 200.8 Rev. 5.4 | Copper    | 1.56   |      | ug/L  | P358715  |          |
|           |                    | Lead      | 0.45   |      | ug/L  | P358715  |          |
|           |                    | Nickel    | 0.50   | U    | ug/L  | P358715  |          |
|           |                    | Selenium  | 0.20   | U    | ug/L  | P358715  |          |
|           |                    | Silver    | 0.010  | U    | ug/L  | P358715  |          |
|           |                    | Thallium  | 0.10   | U    | ug/L  | P358715  |          |

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2120 B: The sample expired upon receipt.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt.

EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Some analytes analyzed beyond holding time due to technical difficulties.

Sample Location: CEDAR CR BLANDING BLVD BR RT 21

Collection Date/Time: 02/07/2019 10:05

Field ID: 20030083

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2061378   | EPA 180.1 Rev. 2.0           | Turbidity         | 6.4    | Q    | NTU        | P358679  |          |
|           | EPA 300.0                    | Bromide           | 0.11   |      | mg Br/L    | P358982  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 83     |      | mg CaCO3/L | P359115  |          |
|           | SM 2540 D-97                 | TSS               | 7      | I    | mg/L       | P359152  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.10   |      | mg F/L     | P359120  |          |
| 2061380   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.007  |      | mg N/L     | P359056  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.71   |      | mg N/L     | P359018  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.23   |      | mg N/L     | P358940  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.078  |      | mg P/L     | P358858  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 11     |      | mg C/L     | P359417  |          |
| 2061382   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.038  | Q    | mg P/L     | P358814  |          |
| 2061402   | EPA 200.7 Rev. 4.4           | Iron              | 520    |      | ug/L       | P358715  |          |
|           |                              | Manganese         | 23.3   |      | ug/L       | P358715  |          |
|           |                              | Zinc              | 11     | I    | ug/L       | P358715  |          |
|           | EPA 200.8 Rev. 5.4           | Aluminum          | 177    |      | ug/L       | P358715  |          |
|           |                              | Antimony          | 0.25   |      | ug/L       | P358715  |          |
|           |                              | Arsenic           | 1.12   |      | ug/L       | P358715  |          |
|           |                              | Cadmium           | 0.020  | U    | ug/L       | P358715  |          |
|           |                              | Chromium          | 0.63   | I    | ug/L       | P358715  |          |
|           |                              | Copper            | 3.31   |      | ug/L       | P358715  |          |
|           |                              | Lead              | 1.52   |      | ug/L       | P358715  |          |
|           |                              | Nickel            | 0.63   | I    | ug/L       | P358715  |          |
|           |                              | Selenium          | 0.20   | U    | ug/L       | P358715  |          |
|           |                              | Silver            | 0.010  | U    | ug/L       | P358715  |          |
|           |                              | Thallium          | 0.10   | U    | ug/L       | P358715  |          |

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt.

Sample Location: ORTEGA BR ROOSEVELT BLVD US 17

Collection Date/Time: 02/07/2019 10:30

Field ID: 20030077

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2061379   | EPA 180.1 Rev. 2.0           | Turbidity         | 7.2    | AQ   | NTU        | P358679  |          |
|           | EPA 300.0                    | Bromide           | 0.34   |      | mg Br/L    | P358982  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 53     |      | mg CaCO3/L | P359115  |          |
|           | SM 2540 D-97                 | TSS               | 8      | IA   | mg/L       | P359153  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.081  | I    | mg F/L     | P359120  |          |
| 2061381   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.019  |      | mg N/L     | P359056  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.70   |      | mg N/L     | P359018  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.22   |      | mg N/L     | P358941  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.084  |      | mg P/L     | P358858  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 16     |      | mg C/L     | P359417  |          |
| 2061383   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.046  | Q    | mg P/L     | P358814  |          |
| 2061403   | EPA 200.7 Rev. 4.4           | Iron              | 530    |      | ug/L       | P358715  |          |
|           |                              | Manganese         | 11.0   |      | ug/L       | P358715  |          |
|           |                              | Zinc              | 6.1    | I    | ug/L       | P358715  |          |
|           | EPA 200.8 Rev. 5.4           | Aluminum          | 234    |      | ug/L       | P358715  |          |
|           |                              | Antimony          | 0.11   | I    | ug/L       | P358715  |          |
|           |                              | Arsenic           | 0.99   |      | ug/L       | P358715  |          |
|           |                              | Cadmium           | 0.020  | U    | ug/L       | P358715  |          |
|           |                              | Chromium          | 0.77   | I    | ug/L       | P358715  |          |
|           |                              | Copper            | 2.19   |      | ug/L       | P358715  |          |
|           |                              | Lead              | 0.91   |      | ug/L       | P358715  |          |
|           |                              | Nickel            | 0.50   | U    | ug/L       | P358715  |          |
|           |                              | Selenium          | 0.20   | U    | ug/L       | P358715  |          |
|           |                              | Silver            | 0.010  | U    | ug/L       | P358715  |          |
|           |                              | Thallium          | 0.10   | U    | ug/L       | P358715  |          |

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt.

**Sample Location: FISHING CRK AT PUBLIC BOAT RAMP OFF SEABOARD AV**

**Collection Date/Time: 02/07/2019 10:50**

**Field ID: 20030617**

**Matrix: W-SURF-FRH**

| Sample ID | Ref. Method                  | Component         | Result | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|--------|------|------------|----------|----------|
| 2061384   | EPA 180.1 Rev. 2.0           | Turbidity         | 5.4    | Q    | NTU        | P358679  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride          | 42     |      | mg Cl/L    | P359447  |          |
|           |                              | Sulfate           | 20     |      | mg SO4/L   | P359452  |          |
|           |                              | Color (true)      | 99     | Q    | PCU        | P358809  |          |
|           | SM 2320 B-97                 | Total Alkalinity  | 64     |      | mg CaCO3/L | P359115  |          |
|           | SM 2540 C-97                 | TDS               | 196    |      | mg/L       | P359129  |          |
|           | SM 2540 D-97                 | TSS               | 4      | I    | mg/L       | P359150  |          |
|           | SM 4500 F-C-97               | Fluoride          | 0.081  | I    | mg F/L     | P359120  |          |
| 2061385   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.010  |      | mg N/L     | P359056  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.88   |      | mg N/L     | P359018  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.12   |      | mg N/L     | P358941  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.094  |      | mg P/L     | P358858  |          |
|           | SM 5310 B-00                 | Organic Carbon    | 13     |      | mg C/L     | P359417  |          |
| 2061386   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.034  | Q    | mg P/L     | P358814  |          |
| 2061404   | EPA 200.7 Rev. 4.4           | Barium            | 23.8   |      | ug/L       | P358715  |          |
|           |                              | Calcium           | 27.6   |      | mg/L       | P358715  |          |
|           |                              | Iron              | 560    |      | ug/L       | P358715  |          |
|           |                              | Magnesium         | 6.18   |      | mg/L       | P358715  |          |
|           |                              | Potassium         | 2.5    |      | mg/L       | P358715  |          |
|           |                              | Sodium            | 26.2   |      | mg/L       | P358715  |          |
|           |                              | Zinc              | 9.8    | I    | ug/L       | P358715  |          |
|           | EPA 200.8 Rev. 5.4           | Aluminum          | 144    |      | ug/L       | P358715  |          |
|           |                              | Antimony          | 0.21   |      | ug/L       | P358715  |          |
|           |                              | Arsenic           | 1.08   |      | ug/L       | P358715  |          |
|           |                              | Boron**           | 43.7   |      | ug/L       | P358715  |          |
|           |                              | Cadmium           | 0.020  | U    | ug/L       | P358715  |          |
|           |                              | Chromium          | 11.1   |      | ug/L       | P358715  |          |
|           |                              | Copper            | 2.47   |      | ug/L       | P358715  |          |
|           |                              | Lead              | 1.02   |      | ug/L       | P358715  |          |
|           |                              | Nickel            | 1.7    | I    | ug/L       | P358715  |          |
|           |                              | Selenium          | 0.20   | U    | ug/L       | P358715  |          |
|           |                              | Silver            | 0.010  | U    | ug/L       | P358715  |          |
|           |                              | Thallium          | 0.10   | U    | ug/L       | P358715  |          |

Ref. Method and Comment:

EPA 180.1 Rev. 2.0: The sample expired upon receipt.

SM 2120 B: The sample expired upon receipt.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample expired upon receipt.

Sample Location: GOODBYS CR @ SR-13

Collection Date/Time: 02/07/2019 12:05

Field ID: 20030518

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component           | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|---------------------|--------|------|-------|----------|----------|
| 2061578   | EPA 8270D   | Aldrin              | 4.0    | U    | ng/L  | P358685  |          |
|           |             | Alpha-BHC           | 2.0    | U    | ng/L  | P358685  |          |
|           |             | Alpha-Chlordane     | 1.0    | U    | ng/L  | P358685  |          |
|           |             | Beta-BHC            | 10     | U    | ng/L  | P358685  |          |
|           |             | Delta-BHC           | 10     | U    | ng/L  | P358685  |          |
|           |             | Gamma-BHC           | 10     | U    | ng/L  | P358685  |          |
|           |             | Carbophenothion     | 12     | U    | ng/L  | P358685  |          |
|           |             | Chlorothalonil      | 2.0    | UJ   | ng/L  | P358685  | RPD      |
|           |             | Cypermethrin        | 20     | U    | ng/L  | P358685  |          |
|           |             | DDD-p,p'            | 8.1    | U    | ng/L  | P358685  |          |
|           |             | DDE-p,p'            | 8.1    | U    | ng/L  | P358685  |          |
|           |             | DDT-p,p'            | 10     | U    | ng/L  | P358685  |          |
|           |             | Dicofol             | 30     | U    | ng/L  | P358685  |          |
|           |             | Dieldrin            | 4.0    | U    | ng/L  | P358685  |          |
|           |             | Endosulfan I        | 4.0    | U    | ng/L  | P358685  |          |
|           |             | Endosulfan II       | 4.0    | U    | ng/L  | P358685  |          |
|           |             | Endosulfan Sulfate  | 2.0    | U    | ng/L  | P358685  |          |
|           |             | Endrin              | 2.0    | U    | ng/L  | P358685  |          |
|           |             | Endrin Aldehyde     | 2.0    | UJ   | ng/L  | P358685  | RPD      |
|           |             | Endrin Ketone       | 2.0    | U    | ng/L  | P358685  |          |
|           |             | Gamma-Chlordane     | 1.0    | U    | ng/L  | P358685  |          |
|           |             | Heptachlor          | 1.5    | U    | ng/L  | P358685  |          |
|           |             | Heptachlor Epoxide  | 2.0    | U    | ng/L  | P358685  |          |
|           |             | Methoxychlor        | 4.0    | U    | ng/L  | P358685  |          |
|           |             | Mirex               | 2.0    | U    | ng/L  | P358685  |          |
|           |             | Permethrin          | 10     | U    | ng/L  | P358685  |          |
|           |             | Trifluralin         | 2.5    | U    | ng/L  | P358685  |          |
|           | EPA 8276    | Chlordane           | 5.1    | U    | ng/L  | P358685  |          |
|           |             | Toxaphene           | 30     | U    | ng/L  | P358685  |          |
|           |             | Acetochlor          | 0.24   | U    | ng/L  | P358680  |          |
| 2061579   | EPA 8270D   | Alachlor            | 0.24   | U    | ng/L  | P358680  |          |
|           |             | Ametryn             | 0.57   | U    | ng/L  | P358680  | RPD      |
|           |             | Atrazine            | 55     |      | ng/L  | P358680  |          |
|           |             | Atrazine Desethyl   | 5.8    | J    | ng/L  | P358680  | RPD      |
|           |             | Azinphos Methyl     | 2.1    | U    | ng/L  | P358680  |          |
|           |             | Bromacil            | 2.4    |      | ng/L  | P358680  |          |
|           |             | Butylate            | 0.38   | U    | ng/L  | P358680  |          |
|           |             | Chlorpyrifos Ethyl  | 0.24   | U    | ng/L  | P358680  |          |
|           |             | Chlorpyrifos Methyl | 0.094  | U    | ng/L  | P358680  |          |
|           |             | Cyanazine           | 3.1    | U    | ng/L  | P358680  |          |
|           |             | Demeton             | 6.6    | U    | ng/L  | P358680  |          |
|           |             | Diazinon            | 0.68   |      | ng/L  | P358680  |          |
|           |             | Dimethenamid**      | 0.094  | U    | ng/L  | P358680  |          |
|           |             | Disulfoton          | 0.47   | U    | ng/L  | P358680  |          |

Field ID: 20030518

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component             | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-----------------------|--------|------|-------|----------|----------|
| 2061579   | EPA 8270D   | Dithiopyr**           | 0.28   | I    | ng/L  | P358680  |          |
|           |             | EPTC                  | 1.2    | U    | ng/L  | P358680  |          |
|           |             | Ethion                | 0.14   | U    | ng/L  | P358680  |          |
|           |             | Ethoprop              | 0.29   | I    | ng/L  | P358680  |          |
|           |             | Fenamiphos            | 0.47   | U    | ng/L  | P358680  |          |
|           |             | Fipronil              | 0.83   | I    | ng/L  | P358680  |          |
|           |             | Fipronil DesulfinyI** | 0.50   |      | ng/L  | P358680  | MS       |
|           |             | Fipronil Sulfide      | 1.0    |      | ng/L  | P358680  |          |
|           |             | Fipronil Sulfone      | 2.1    |      | ng/L  | P358680  |          |
|           |             | Fonofos               | 0.19   | U    | ng/L  | P358680  |          |
|           |             | Hexazinone            | 12     |      | ng/L  | P358680  |          |
|           |             | Malathion             | 0.33   | U    | ng/L  | P358680  |          |
|           |             | Metalaxyl             | 3.6    |      | ng/L  | P358680  |          |
|           |             | Metolachlor           | 26     |      | ng/L  | P358680  |          |
|           |             | Metribuzin            | 0.79   | IJ   | ng/L  | P358680  | RPD      |
|           |             | Mevinphos             | 0.47   | U    | ng/L  | P358680  |          |
|           |             | Molinate              | 0.28   | U    | ng/L  | P358680  |          |
|           |             | Norflurazon           | 0.47   | U    | ng/L  | P358680  |          |
|           |             | Oxadiazon**           | 0.96   |      | ng/L  | P358680  |          |
|           |             | Parathion Ethyl       | 0.24   | U    | ng/L  | P358680  |          |
|           |             | Parathion Methyl      | 0.52   | U    | ng/L  | P358680  |          |
|           |             | Pendimethalin         | 0.94   | U    | ng/L  | P358680  |          |
|           |             | Phorate               | 0.24   | U    | ng/L  | P358680  |          |
|           |             | Prodiamine**          | 0.87   |      | ng/L  | P358680  |          |
|           |             | Prometon              | 0.85   | U    | ng/L  | P358680  |          |
|           |             | Prometryn             | 0.19   | U    | ng/L  | P358680  |          |
|           |             | Simazine              | 38     |      | ng/L  | P358680  |          |
|           |             | Tebuconazole**        | 1.1    | I    | ng/L  | P358680  |          |
|           |             | Terbufos              | 0.094  | U    | ng/L  | P358680  |          |
|           |             | Terbuthylazine        | 0.40   | U    | ng/L  | P358680  |          |

Ref. Method and Comment:

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Sample Location: GOODBY'S CR @ SR-13

Collection Date/Time: 02/07/2019 12:05

Field ID: 20030518

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 2061581   | EPA 8321B   | 2,4-D            | 0.023   |      | ug/L  | P358573  |          |
|           |             | Acesulfame K**   | 0.10    | U    | ug/L  | P358749  |          |
|           |             | AMPA**           | 0.10    | UQ   | ug/L  | P358749  |          |
|           |             | Sucralose**      | 0.37    |      | ug/L  | P358749  |          |
|           |             | Acetaminophen**  | 0.0080  | U    | ug/L  | P358573  |          |
|           |             | Endothall**      | 0.25    | U    | ug/L  | P358749  | MS       |
|           |             | Glufosinate**    | 0.10    | UQ   | ug/L  | P358749  |          |
|           |             | Bentazon         | 0.017   |      | ug/L  | P358573  |          |
|           |             | Glyphosate**     | 0.10    | UQ   | ug/L  | P358749  |          |
|           |             | Carbamazepine**  | 8.0E-04 | U    | ug/L  | P358573  |          |
|           |             | Diuron           | 0.0026  | I    | ug/L  | P358573  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P358573  |          |
|           |             | Imazapyr**       | 0.15    |      | ug/L  | P358573  |          |
|           |             | Imidacloprid     | 0.016   |      | ug/L  | P358573  | MS       |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P358573  |          |
|           |             | MCPP             | 0.0021  | I    | ug/L  | P358573  |          |
|           |             | Primidone**      | 0.0040  | U    | ug/L  | P358573  |          |
|           |             | Pyraclostrobin** | 0.0020  | U    | ug/L  | P358573  |          |
|           |             | Triclopyr**      | 0.0040  | U    | ug/L  | P358573  |          |
|           |             | Fluridone**      | 0.0062  |      | ug/L  | P358573  |          |
|           |             | Hydrocodone**    | 0.0020  | U    | ug/L  | P358573  |          |
|           |             | Naproxen**       | 0.0080  | U    | ug/L  | P358573  |          |
|           |             | Ibuprofen**      | 0.020   | U    | ug/L  | P358573  |          |

Ref. Method and Comment:

EPA 8321B: MS accuracy for imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

EPA 8321B: Some analytes analyzed beyond holding time due to technical difficulties.

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## Non-Conformance Report

**NCR ID: 7487**

**Event(s)**

NE-DIST-2019-02-09-01

**Job(s)**

**Sample(s)**

**Test(s)**

**NCR Type: SHIPPING/RECEIVING**

**NCR Category: Samples arrived late**

Observation: Samples arrived one or more days late by FedEx, samples received within the acceptable temperature range. Tracking number:  
438550356405  
475187760693  
475187760682

Resolution: Customer Jeremy Parrish contacted, email correspondence attached to sample submittal forms.

Samples will be qualified as appropriate.

Authorized by/Date: Joshua Ayres 2/12/2019

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The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.  
Please address questions to:

|           |                |                |
|-----------|----------------|----------------|
| Chemistry | Colin Wright   | (850) 245-8085 |
| Biology   | Cheryl Swanson | (850) 245-8177 |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P358679

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Turbidity | 0.10   | U    | NTU   |

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P358715

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Barium    | 1.0    | U    | ug/L  |
| Calcium   | 0.075  | U    | mg/L  |
| Iron      | 30     | U    | ug/L  |
| Magnesium | 0.040  | U    | mg/L  |
| Manganese | 1.0    | U    | ug/L  |
| Potassium | 0.30   | U    | mg/L  |
| Sodium    | 0.50   | U    | mg/L  |
| Zinc      | 5.0    | U    | ug/L  |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P358715

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Aluminum  | 5.0    | U    | ug/L  |
| Antimony  | 0.050  | U    | ug/L  |
| Arsenic   | 0.050  | U    | ug/L  |
| Boron     | 2.0    | U    | ug/L  |
| Cadmium   | 0.020  | U    | ug/L  |
| Chromium  | 0.40   | U    | ug/L  |
| Copper    | 0.40   | U    | ug/L  |
| Lead      | 0.20   | 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 300.0  
Batch ID: P358982

| Component | Result | Code | Units   |
|-----------|--------|------|---------|
| Bromide   | 0.013  | U    | mg Br/L |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359447

| Component | Result | Code | Units   |
|-----------|--------|------|---------|
| Chloride  | 0.20   | U    | mg Cl/L |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359452

| Component | Result | Code | Units    |
|-----------|--------|------|----------|
| Sulfate   | 0.20   | U    | mg SO4/L |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P359056

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| Ammonia-N | 0.002  | U    | mg N/L |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P358835

| Component         | Result | Code | Units  |
|-------------------|--------|------|--------|
| Kjeldahl Nitrogen | 0.080  | U    | mg N/L |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P359018

| Component         | Result | Code | Units  |
|-------------------|--------|------|--------|
| Kjeldahl Nitrogen | 0.080  | U    | mg N/L |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P359302

| Component         | Result | Code | Units  |
|-------------------|--------|------|--------|
| Kjeldahl Nitrogen | 0.080  | U    | mg N/L |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358940

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| NO2NO3-N  | 0.004  | U    | mg N/L |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358941

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| NO2NO3-N  | 0.004  | U    | mg N/L |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P358858

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| Total-P   | 0.002  | U    | mg P/L |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P358814

| Component     | Result | Code | Units  |
|---------------|--------|------|--------|
| O-Phosphate-P | 0.004  | U    | mg P/L |

Reference Method: EPA 8270D  
Batch ID: P358680

| Component  | Result | Code | Units |
|------------|--------|------|-------|
| Acetochlor | 0.25   | U    | ng/L  |
| Alachlor   | 0.25   | U    | ng/L  |
| Ametryn    | 0.60   | U    | ng/L  |
| Atrazine   | 0.25   | U    | ng/L  |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D  
Batch ID: P358680

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| Atrazine Desethyl   | 1.5    | U    | ng/L  |
| Azinphos Methyl     | 2.2    | U    | ng/L  |
| Bromacil            | 0.50   | U    | ng/L  |
| Butylate            | 0.40   | U    | ng/L  |
| Chlorpyrifos Ethyl  | 0.25   | U    | ng/L  |
| Chlorpyrifos Methyl | 0.10   | U    | ng/L  |
| Cyanazine           | 3.2    | U    | ng/L  |
| Demeton             | 7.0    | U    | ng/L  |
| Diazinon            | 0.12   | U    | ng/L  |
| Dimethenamid        | 0.10   | U    | ng/L  |
| Disulfoton          | 0.50   | U    | ng/L  |
| Dithiopyr           | 0.10   | U    | ng/L  |
| EPTC                | 1.2    | U    | ng/L  |
| Ethion              | 0.15   | U    | ng/L  |
| Ethoprop            | 0.10   | U    | ng/L  |
| Fenamiphos          | 0.50   | U    | ng/L  |
| Fipronil            | 0.25   | U    | ng/L  |
| Fipronil Desulfinyl | 0.12   | U    | ng/L  |
| Fipronil Sulfide    | 0.15   | U    | ng/L  |
| Fipronil Sulfone    | 0.15   | U    | ng/L  |
| Fonofos             | 0.20   | U    | ng/L  |
| Hexazinone          | 0.50   | U    | ng/L  |
| Malathion           | 0.35   | U    | ng/L  |
| Metaxyl             | 0.25   | U    | ng/L  |
| Metolachlor         | 0.50   | U    | ng/L  |
| Metribuzin          | 0.75   | U    | ng/L  |
| Mevinphos           | 0.50   | U    | ng/L  |
| Molinate            | 0.30   | U    | ng/L  |
| Norflurazon         | 0.50   | U    | ng/L  |
| Oxadiazon           | 0.10   | U    | ng/L  |
| Parathion Ethyl     | 0.25   | U    | ng/L  |
| Parathion Methyl    | 0.55   | U    | ng/L  |
| Pendimethalin       | 1.0    | U    | ng/L  |
| Phorate             | 0.25   | U    | ng/L  |
| Prodiamine          | 0.18   | U    | ng/L  |
| Prometon            | 0.90   | U    | ng/L  |
| Prometryn           | 0.20   | U    | ng/L  |
| Simazine            | 0.50   | U    | ng/L  |
| Tebuconazole        | 0.50   | U    | ng/L  |
| Terbufos            | 0.10   | U    | ng/L  |
| Terbutylazine       | 0.42   | U    | ng/L  |

Reference Method: EPA 8270D  
Batch ID: P358685

| Component       | Result | Code | Units |
|-----------------|--------|------|-------|
| Aldrin          | 4.0    | U    | ng/L  |
| Alpha-BHC       | 2.0    | U    | ng/L  |
| Alpha-Chlordane | 1.0    | U    | ng/L  |
| Beta-BHC        | 10     | U    | ng/L  |
| Carbophenothion | 12     | U    | ng/L  |
| Chlorothalonil  | 2.0    | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270D  
Batch ID: P358685

| Component          | Result | Code | Units |
|--------------------|--------|------|-------|
| Cypermethrin       | 20     | U    | ng/L  |
| DDD-p,p'           | 8.0    | U    | ng/L  |
| DDE-p,p'           | 8.0    | U    | ng/L  |
| DDT-p,p'           | 10     | U    | ng/L  |
| Delta-BHC          | 10     | U    | ng/L  |
| Dicofol            | 30     | U    | ng/L  |
| Dieldrin           | 4.0    | U    | ng/L  |
| Endosulfan I       | 4.0    | U    | ng/L  |
| Endosulfan II      | 4.0    | U    | ng/L  |
| Endosulfan Sulfate | 2.0    | U    | ng/L  |
| Endrin             | 2.0    | U    | ng/L  |
| Endrin Aldehyde    | 2.0    | U    | ng/L  |
| Endrin Ketone      | 2.0    | U    | ng/L  |
| Gamma-BHC          | 10     | U    | ng/L  |
| Gamma-Chlordane    | 1.0    | U    | ng/L  |
| Heptachlor         | 1.5    | U    | ng/L  |
| Heptachlor Epoxide | 2.0    | U    | ng/L  |
| Methoxychlor       | 4.0    | U    | ng/L  |
| Mirex              | 2.0    | U    | ng/L  |
| Permethrin         | 10     | U    | ng/L  |
| Trifluralin        | 2.5    | U    | ng/L  |

Reference Method: EPA 8276  
Batch ID: P358685

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Chlordane | 5.0    | U    | ng/L  |
| Toxaphene | 30     | U    | ng/L  |

Reference Method: EPA 8321B  
Batch ID: P358573

| Component      | Result  | Code | Units |
|----------------|---------|------|-------|
| 2,4-D          | 0.0020  | U    | ug/L  |
| Acetaminophen  | 0.0080  | U    | ug/L  |
| Bentazon       | 8.0E-04 | U    | ug/L  |
| Carbamazepine  | 8.0E-04 | U    | ug/L  |
| Diuron         | 0.0020  | U    | ug/L  |
| Fenuron        | 0.016   | U    | ug/L  |
| Fluridone      | 8.0E-04 | U    | ug/L  |
| Hydrocodone    | 0.0020  | U    | ug/L  |
| Ibuprofen      | 0.020   | U    | ug/L  |
| Imazapyr       | 0.0040  | U    | ug/L  |
| Imidacloprid   | 0.0020  | U    | ug/L  |
| Linuron        | 0.0040  | U    | ug/L  |
| MCP            | 0.0020  | U    | ug/L  |
| Naproxen       | 0.0080  | U    | ug/L  |
| Primidone      | 0.0040  | U    | ug/L  |
| Pyraclostrobin | 0.0020  | U    | ug/L  |
| Triclopyr      | 0.0040  | U    | ug/L  |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B  
Batch ID: P358749

| 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: SM 2120 B  
Batch ID: P358809

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Color (true) | 2.5    | U    | PCU   |

Reference Method: SM 2320 B-97  
Batch ID: P359115

| Component        | Result | Code | Units      |
|------------------|--------|------|------------|
| Total Alkalinity | 0.65   | U    | mg CaCO3/L |

Reference Method: SM 2540 C-97  
Batch ID: P359129

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TDS       | 15     | U    | mg/L  |

Reference Method: SM 2540 D-97  
Batch ID: P359150

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS       | 2      | U    | mg/L  |

Reference Method: SM 2540 D-97  
Batch ID: P359152

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS       | 2      | U    | mg/L  |

Reference Method: SM 2540 D-97  
Batch ID: P359153

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS       | 2      | U    | mg/L  |

Reference Method: SM 4500 F-C-97  
Batch ID: P359120

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| Fluoride  | 0.035  | U    | mg F/L |

## Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00  
Batch ID: P359417

| Component      | Result | Code | Units  |
|----------------|--------|------|--------|
| Organic Carbon | 0.50   | U    | mg C/L |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P358715

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Barium    | 102     |         | P         | 85 - 115       |
| Calcium   | 105     |         | P         | 85 - 115       |
| Iron      | 109     |         | P         | 85 - 115       |
| Magnesium | 113     |         | P         | 85 - 115       |
| Manganese | 101     |         | P         | 85 - 115       |
| Potassium | 110     |         | P         | 85 - 115       |
| Sodium    | 107     |         | P         | 85 - 115       |
| Zinc      | 101     |         | P         | 85 - 115       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P358715

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Aluminum  | 101     |         | P         | 85 - 115       |
| Antimony  | 100     |         | P         | 85 - 115       |
| Arsenic   | 105     |         | P         | 85 - 115       |
| Boron     | 99.9    |         | P         | 85 - 115       |
| Cadmium   | 110     |         | P         | 85 - 115       |
| Chromium  | 101     |         | P         | 85 - 115       |
| Copper    | 101     |         | P         | 85 - 115       |
| Lead      | 93.5    |         | P         | 85 - 115       |
| Nickel    | 102     |         | P         | 85 - 115       |
| Selenium  | 103     |         | P         | 85 - 115       |
| Silver    | 103     |         | P         | 85 - 115       |
| Thallium  | 103     |         | P         | 85 - 115       |

Reference Method: EPA 300.0  
Batch ID: P358982

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Bromide   | 100     |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359447

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chloride  | 100     |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359452

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Sulfate   | 101     |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P359056

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Ammonia-N | 100     |         | P         | 90 - 110       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P358835

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 101     |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P359018

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 104     |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P359302

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 100     |         | P         | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358940

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N  | 99.5    |         | P         | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358941

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N  | 100     |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P358858

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Total-P   | 99.5    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P358814

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| O-Phosphate-P | 97.5    |         | P         | 90 - 110       |

Reference Method: EPA 8270D  
Batch ID: P358680

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Acetochlor          | 99.4    | 89.0    | P/P       | 71 - 121       |
| Alachlor            | 102     | 87.4    | P/P       | 72 - 119       |
| Ametryn             | 90.9    | 87.9    | P/P       | 47 - 144       |
| Atrazine            | 104     | 99.6    | P/P       | 75 - 123       |
| Atrazine Desethyl   | 106     | 56.6    | P/P       | 45 - 133       |
| Azinphos Methyl     | 126     | 111     | P/P       | 66 - 165       |
| Bromacil            | 68.2    | 63.5    | P/P       | 43 - 123       |
| Butylate            | 60.1    | 59.7    | P/P       | 27 - 83.0      |
| Chlorpyrifos Ethyl  | 98.0    | 111     | P/P       | 70 - 117       |
| Chlorpyrifos Methyl | 98.5    | 88.2    | P/P       | 71 - 120       |

## Quality Assurance Report Laboratory Control Sample Accuracy

**Reference Method: EPA 8270D**  
**Batch ID: P358680**

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Cyanazine           | 134     | 103     | P/P       | 34 - 264       |
| Demeton             | 73.8    | 69.1    | P/P       | 41 - 122       |
| Diazinon            | 99.2    | 84.8    | P/P       | 70 - 127       |
| Dimethenamid        | 100     | 88.7    | P/P       | 60 - 130       |
| Disulfoton          | 85.4    | 82.8    | P/P       | 56 - 127       |
| Dithiopyr           | 99.5    | 87.6    | P/P       | 60 - 130       |
| EPTC                | 61.1    | 59.5    | P/P       | 24 - 84.0      |
| Ethion              | 90.8    | 96.9    | P/P       | 53 - 132       |
| Ethoprop            | 84.2    | 77.3    | P/P       | 57 - 117       |
| Fenamiphos          | 85.0    | 86.2    | P/P       | 55 - 136       |
| Fipronil            | 95.0    | 80.1    | P/P       | 64 - 126       |
| Fipronil Desulfinyl | 91.2    | 78.9    | P/P       | 60 - 130       |
| Fipronil Sulfide    | 89.0    | 91.1    | P/P       | 57 - 120       |
| Fipronil Sulfone    | 78.1    | 75.7    | P/P       | 52 - 115       |
| Fonofos             | 86.8    | 88.0    | P/P       | 61 - 121       |
| Hexazinone          | 105     | 100     | P/P       | 62 - 131       |
| Malathion           | 93.4    | 105     | P/P       | 67 - 126       |
| Metalaxyl           | 97.4    | 77.9    | P/P       | 54 - 128       |
| Metolachlor         | 90.4    | 95.2    | P/P       | 71 - 118       |
| Metribuzin          | 202     | 87.2    | P/P       | 42 - 221       |
| Mevinphos           | 81.2    | 73.5    | P/P       | 45 - 114       |
| Molinate            | 65.2    | 62.5    | P/P       | 33 - 91.0      |
| Norflurazon         | 93.7    | 76.8    | P/P       | 60 - 123       |
| Oxadiazon           | 93.1    | 97.4    | P/P       | 60 - 130       |
| Parathion Ethyl     | 92.7    | 90.3    | P/P       | 73 - 111       |
| Parathion Methyl    | 104     | 80.0    | P/P       | 74 - 126       |
| Pendimethalin       | 85.6    | 81.0    | P/P       | 63 - 131       |
| Phorate             | 75.8    | 69.5    | P/P       | 54 - 115       |
| Prodiamine          | 62.5    | 78.4    | P/P       | 60 - 130       |
| Prometon            | 81.3    | 80.1    | P/P       | 61 - 120       |
| Prometryn           | 86.3    | 80.5    | P/P       | 62 - 126       |
| Simazine            | 110     | 97.1    | P/P       | 75 - 126       |
| Tebuconazole        | 78.2    | 72.7    | P/P       | 30 - 100       |
| Terbufos            | 85.1    | 82.3    | P/P       | 65 - 116       |
| Terbuthylazine      | 90.8    | 95.9    | P/P       | 73 - 117       |

**Reference Method: EPA 8270D**  
**Batch ID: P358685**

| Component       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------------|---------|---------|-----------|----------------|
| Aldrin          | 58.0    | 52.8    | P/P       | 25 - 92.0      |
| Alpha-BHC       | 87.6    | 106     | P/P       | 49 - 130       |
| Alpha-Chlordane | 84.4    | 86.6    | P/P       | 50 - 115       |
| Beta-BHC        | 109     | 124     | P/P       | 43 - 157       |
| Carbophenothion | 70.1    | 77.2    | P/P       | 27 - 180       |
| Chlorothalonil  | 118     | 134     | P/P       | 10 - 216       |
| Cypermethrin    | 72.6    | 75.7    | P/P       | 40 - 153       |
| DDD-p,p'        | 93.7    | 97.5    | P/P       | 53 - 128       |
| DDE-p,p'        | 86.7    | 88.6    | P/P       | 48 - 116       |
| DDT-p,p'        | 96.2    | 94.2    | P/P       | 47 - 128       |
| Delta-BHC       | 125     | 132     | P/P       | 51 - 196       |
| Dicofol         | 87.8    | 99.9    | P/P       | 10 - 147       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D  
Batch ID: P358685

| Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------------|---------|---------|-----------|----------------|
| Dieldrin           | 89.4    | 91.8    | P/P       | 48 - 128       |
| Endosulfan I       | 90.3    | 92.1    | P/P       | 58 - 126       |
| Endosulfan II      | 85.0    | 95.0    | P/P       | 50 - 150       |
| Endosulfan Sulfate | 69.6    | 81.6    | P/P       | 56 - 130       |
| Endrin             | 94.4    | 86.0    | P/P       | 50 - 126       |
| Endrin Aldehyde    | 85.5    | 96.7    | P/P       | 12 - 145       |
| Endrin Ketone      | 71.6    | 81.1    | P/P       | 59 - 132       |
| Gamma-BHC          | 115     | 118     | P/P       | 50 - 155       |
| Gamma-Chlordane    | 82.2    | 84.7    | P/P       | 50 - 112       |
| Heptachlor         | 67.4    | 67.0    | P/P       | 41 - 98.0      |
| Heptachlor Epoxide | 85.1    | 88.7    | P/P       | 55 - 117       |
| Methoxychlor       | 104     | 113     | P/P       | 55 - 133       |
| Mirex              | 64.0    | 63.2    | P/P       | 44 - 101       |
| Permethrin         | 66.0    | 67.8    | P/P       | 52 - 124       |
| Trifluralin        | 85.4    | 91.8    | P/P       | 10 - 201       |

Reference Method: EPA 8276  
Batch ID: P358685

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chlordane | 77.7    | 81.0    | P/P       | 43 - 128       |
| Toxaphene | 57.9    | 66.6    | P/P       | 38 - 140       |

Reference Method: EPA 8321B  
Batch ID: P358573

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| 2,4-D          | 60.5    |         | P         | 40 - 150       |
| Acetaminophen  | 82.2    |         | P         | 30 - 150       |
| Bentazon       | 64.9    |         | P         | 30 - 150       |
| Carbamazepine  | 85.2    |         | P         | 40 - 150       |
| Diuron         | 83.0    |         | P         | 40 - 150       |
| Fenuron        | 101     |         | P         | 40 - 150       |
| Fluridone      | 101     |         | P         | 40 - 150       |
| Hydrocodone    | 96.7    |         | P         | 40 - 150       |
| Ibuprofen      | 75.9    |         | P         | 40 - 150       |
| Imazapyr       | 74.4    |         | P         | 40 - 150       |
| Imidacloprid   | 111     |         | P         | 40 - 150       |
| Linuron        | 82.4    |         | P         | 40 - 150       |
| MCPP           | 79.2    |         | P         | 40 - 150       |
| Naproxen       | 70.7    |         | P         | 40 - 150       |
| Primidone      | 94.4    |         | P         | 40 - 150       |
| Pyraclostrobin | 78.1    |         | P         | 40 - 150       |
| Triclopyr      | 50.5    |         | P         | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P358749

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 112     |         | P         | 40 - 150       |
| AMPA         | 103     |         | P         | 40 - 150       |
| Endothall    | 100     |         | P         | 40 - 150       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 8321B  
Batch ID: P358749

| Component   | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------|---------|---------|-----------|----------------|
| Glufosinate | 94.1    |         | P         | 40 - 150       |
| Glyphosate  | 107     |         | P         | 40 - 140       |
| Sucralose   | 99.4    |         | P         | 40 - 150       |

Reference Method: SM 2120 B  
Batch ID: P358809

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Color (true) | 99.7    |         | P         | 85 - 115       |

Reference Method: SM 2320 B-97  
Batch ID: P359115

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Total Alkalinity | 102     |         | P         | 98 - 107       |

Reference Method: SM 4500 F-C-97  
Batch ID: P359120

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride  | 94.0    |         | P         | 91 - 105       |

Reference Method: SM 5310 B-00  
Batch ID: P359417

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Organic Carbon | 95.8    |         | P         | 85 - 115       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P358715

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061038       | Barium    | 101     |         | P         | 80 - 120       |
| 2061038       | Calcium   | 103     |         | P         | 80 - 120       |
| 2061038       | Iron      | 107     |         | P         | 80 - 120       |
| 2061038       | Magnesium | 102     |         | P         | 80 - 120       |
| 2061038       | Manganese | 99.5    |         | P         | 80 - 120       |
| 2061038       | Potassium | 108     |         | P         | 80 - 120       |
| 2061038       | Sodium    | 108     |         | P         | 80 - 120       |
| 2061038       | Zinc      | 101     |         | P         | 80 - 120       |
| 2061045       | Barium    | 104     | 102     | P/P       | 80 - 120       |
| 2061045       | Calcium   | 102     |         | P         | 80 - 120       |
| 2061045       | Iron      | 108     | 105     | P/P       | 80 - 120       |
| 2061045       | Magnesium | 111     | 108     | P/P       | 80 - 120       |
| 2061045       | Manganese | 103     | 102     | P/P       | 80 - 120       |
| 2061045       | Potassium | 106     | 102     | P/P       | 80 - 120       |
| 2061045       | Sodium    | 107     |         | P         | 80 - 120       |
| 2061045       | Zinc      | 106     | 104     | P/P       | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P358715

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061038       | Aluminum  | 99.4    |         | P         | 80 - 120       |
| 2061038       | Antimony  | 102     |         | P         | 80 - 120       |
| 2061038       | Arsenic   | 103     |         | P         | 80 - 120       |
| 2061038       | Boron     | 104     |         | P         | 80 - 120       |
| 2061038       | Cadmium   | 109     |         | P         | 80 - 120       |
| 2061038       | Chromium  | 99.8    |         | P         | 80 - 120       |
| 2061038       | Copper    | 98.0    |         | P         | 80 - 120       |
| 2061038       | Lead      | 98.3    |         | P         | 80 - 120       |
| 2061038       | Nickel    | 98.5    |         | P         | 80 - 120       |
| 2061038       | Selenium  | 101     |         | P         | 80 - 120       |
| 2061038       | Silver    | 104     |         | P         | 80 - 120       |
| 2061038       | Thallium  | 111     |         | P         | 80 - 120       |
| 2061045       | Aluminum  | 102     | 100     | P/P       | 80 - 120       |
| 2061045       | Antimony  | 103     | 101     | P/P       | 80 - 120       |
| 2061045       | Arsenic   | 103     | 102     | P/P       | 80 - 120       |
| 2061045       | Boron     | 110     | 109     | P/P       | 80 - 120       |
| 2061045       | Cadmium   | 112     | 110     | P/P       | 80 - 120       |
| 2061045       | Chromium  | 103     | 100     | P/P       | 80 - 120       |
| 2061045       | Copper    | 99.4    | 97.8    | P/P       | 80 - 120       |
| 2061045       | Lead      | 98.4    | 97.7    | P/P       | 80 - 120       |
| 2061045       | Nickel    | 101     | 98.7    | P/P       | 80 - 120       |
| 2061045       | Selenium  | 99.5    | 98.1    | P/P       | 80 - 120       |
| 2061045       | Silver    | 104     | 103     | P/P       | 80 - 120       |
| 2061045       | Thallium  | 110     | 111     | P/P       | 80 - 120       |

Reference Method: EPA 300.0  
Batch ID: P358982

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2058620       | Bromide   | 96.0    |         | P         | 90 - 110       |
| 2061372       | Bromide   | 96.0    |         | P         | 90 - 110       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359447

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061149       | Chloride  | 97.4    |         | P         | 90 - 110       |
| 2061384       | Chloride  | 96.3    |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359452

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061149       | Sulfate   | 96.7    |         | P         | 90 - 110       |
| 2061384       | Sulfate   | 98.2    |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P359056

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2060781       | Ammonia-N | 101     | 102     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P358835

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2061195       | Kjeldahl Nitrogen | 100     | 102     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P359018

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2061585       | Kjeldahl Nitrogen | 107     | 99.6    | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358940

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061196       | NO2NO3-N  | 101     | 99.6    | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358941

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061381       | NO2NO3-N  | 97.0    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P358858

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061198       | Total-P   | 104     | 101     | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P358814

| Spiked Sample | Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------|---------|---------|-----------|----------------|
| 2061677       | O-Phosphate-P | 95.1    | 96.1    | P/P       | 90 - 110       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D  
Batch ID: P358680

| Spiked Sample | Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------------|---------|---------|-----------|----------------|
| 2061294       | Acetochlor          | 81.3    | 84.8    | P/P       | 63 - 129       |
| 2061294       | Alachlor            | 84.6    | 88.1    | P/P       | 65 - 127       |
| 2061294       | Ametryn             | 130     | 92.7    | P/P       | 40 - 164       |
| 2061294       | Atrazine Desethyl   | 97.4    | 96.9    | P/P       | 14 - 157       |
| 2061294       | Azinphos Methyl     | 105     | 111     | P/P       | 49 - 180       |
| 2061294       | Bromacil            | 79.2    | 76.9    | P/P       | 48 - 130       |
| 2061294       | Butylate            | 66.6    | 55.2    | P/P       | 10 - 94.0      |
| 2061294       | Chlorpyrifos Ethyl  | 86.7    | 91.2    | P/P       | 58 - 123       |
| 2061294       | Chlorpyrifos Methyl | 94.4    | 90.7    | P/P       | 58 - 125       |
| 2061294       | Cyanazine           | 147     | 135     | P/P       | 24 - 253       |
| 2061294       | Demeton             | 106     | 84.4    | P/P       | 25 - 149       |
| 2061294       | Diazinon            | 101     | 102     | P/P       | 59 - 144       |
| 2061294       | Dimethenamid        | 82.8    | 85.9    | P/P       | 60 - 130       |
| 2061294       | Disulfoton          | 104     | 102     | P/P       | 54 - 132       |
| 2061294       | Dithiopyr           | 89.3    | 93.7    | P/P       | 60 - 130       |
| 2061294       | EPTC                | 65.5    | 50.9    | P/P       | 10 - 92.0      |
| 2061294       | Ethion              | 92.0    | 89.3    | P/P       | 30 - 148       |
| 2061294       | Ethoprop            | 102     | 96.4    | P/P       | 50 - 130       |
| 2061294       | Fenamiphos          | 92.1    | 77.1    | P/P       | 49 - 142       |
| 2061294       | Fipronil            | 81.8    | 71.8    | P/P       | 46 - 140       |
| 2061294       | Fipronil Desulfinyl | 67.1    | 60.0    | P/F       | 60 - 130       |
| 2061294       | Fipronil Sulfide    | 66.2    | 54.9    | P/P       | 31 - 136       |
| 2061294       | Fipronil Sulfone    | 50.5    | 35.4    | P/P       | 16 - 136       |
| 2061294       | Fonofos             | 105     | 96.9    | P/P       | 55 - 129       |
| 2061294       | Hexazinone          | 113     | 110     | P/P       | 56 - 141       |
| 2061294       | Malathion           | 80.1    | 80.4    | P/P       | 56 - 135       |
| 2061294       | Metalaxyl           | 89.8    | 86.6    | P/P       | 54 - 135       |
| 2061294       | Metolachlor         | 81.4    | 84.9    | P/P       | 51 - 140       |
| 2061294       | Metribuzin          | 216     | 217     | P/P       | 45 - 254       |
| 2061294       | Mevinphos           | 104     | 96.5    | P/P       | 33 - 131       |
| 2061294       | Molinate            | 62.9    | 59.7    | P/P       | 14 - 98.0      |
| 2061294       | Norflurazon         | 79.3    | 67.8    | P/P       | 34 - 136       |
| 2061294       | Oxadiazon           | 82.8    | 85.5    | P/P       | 60 - 130       |
| 2061294       | Parathion Ethyl     | 92.0    | 87.1    | P/P       | 66 - 118       |
| 2061294       | Parathion Methyl    | 106     | 104     | P/P       | 64 - 136       |
| 2061294       | Pendimethalin       | 100     | 94.1    | P/P       | 59 - 144       |
| 2061294       | Phorate             | 94.5    | 77.8    | P/P       | 42 - 130       |
| 2061294       | Prodiamine          | 67.3    | 67.0    | P/P       | 60 - 130       |
| 2061294       | Prometon            | 76.0    | 76.1    | P/P       | 59 - 134       |
| 2061294       | Prometryn           | 82.2    | 78.2    | P/P       | 54 - 135       |
| 2061294       | Simazine            | 126     | 133     | P/P       | 53 - 156       |
| 2061294       | Tebuconazole        | 69.4    | 65.5    | P/P       | 30 - 100       |
| 2061294       | Terbufos            | 107     | 96.0    | P/P       | 57 - 131       |
| 2061294       | Terbutylazine       | 85.2    | 82.4    | P/P       | 68 - 125       |

Reference Method: EPA 8270D  
Batch ID: P358685

| Spiked Sample | Component       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------------|---------|---------|-----------|----------------|
| 2061578       | Aldrin          | 68.8    | 64.4    | P/P       | 25 - 92.0      |
| 2061578       | Alpha-BHC       | 117     | 101     | P/P       | 49 - 130       |
| 2061578       | Alpha-Chlordane | 82.7    | 78.2    | P/P       | 50 - 115       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D  
Batch ID: P358685

| Spiked Sample | Component          | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------------|---------|---------|-----------|----------------|
| 2061578       | Beta-BHC           | 89.9    | 83.8    | P/P       | 43 - 157       |
| 2061578       | Carbophenothion    | 94.7    | 93.5    | P/P       | 27 - 180       |
| 2061578       | Chlorothalonil     | 71.0    | 172     | P/P       | 10 - 216       |
| 2061578       | Cypermethrin       | 81.0    | 83.0    | P/P       | 40 - 153       |
| 2061578       | DDD-p,p'           | 85.1    | 81.1    | P/P       | 53 - 128       |
| 2061578       | DDE-p,p'           | 80.4    | 76.7    | P/P       | 48 - 116       |
| 2061578       | DDT-p,p'           | 117     | 96.6    | P/P       | 47 - 128       |
| 2061578       | Delta-BHC          | 143     | 118     | P/P       | 51 - 196       |
| 2061578       | Dicofol            | 78.0    | 77.2    | P/P       | 10 - 147       |
| 2061578       | Dieldrin           | 84.5    | 80.6    | P/P       | 48 - 128       |
| 2061578       | Endosulfan I       | 85.3    | 87.3    | P/P       | 58 - 126       |
| 2061578       | Endosulfan II      | 103     | 96.1    | P/P       | 50 - 150       |
| 2061578       | Endosulfan Sulfate | 75.3    | 74.5    | P/P       | 56 - 130       |
| 2061578       | Endrin             | 85.1    | 84.5    | P/P       | 50 - 126       |
| 2061578       | Endrin Aldehyde    | 58.7    | 86.3    | P/P       | 12 - 145       |
| 2061578       | Endrin Ketone      | 78.1    | 74.9    | P/P       | 59 - 132       |
| 2061578       | Gamma-BHC          | 123     | 109     | P/P       | 50 - 155       |
| 2061578       | Gamma-Chlordane    | 82.9    | 77.9    | P/P       | 50 - 112       |
| 2061578       | Heptachlor         | 74.3    | 69.8    | P/P       | 41 - 98.0      |
| 2061578       | Heptachlor Epoxide | 88.9    | 84.9    | P/P       | 55 - 117       |
| 2061578       | Methoxychlor       | 91.5    | 101     | P/P       | 55 - 133       |
| 2061578       | Mirex              | 67.7    | 65.4    | P/P       | 44 - 101       |
| 2061578       | Permethrin         | 81.9    | 81.5    | P/P       | 52 - 124       |
| 2061578       | Trifluralin        | 93.1    | 87.7    | P/P       | 10 - 201       |

Reference Method: EPA 8276  
Batch ID: P358685

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2062407       | Chlordane | 62.7    | 54.7    | P/P       | 34 - 136       |
| 2062407       | Toxaphene | 50.5    | 39.4    | P/P       | 22 - 152       |

Reference Method: EPA 8321B  
Batch ID: P358573

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2061239       | 2,4-D          | 70.1    | 65.3    | P/P       | 40 - 150       |
| 2061239       | Acetaminophen  | 118     | 116     | P/P       | 30 - 150       |
| 2061239       | Bentazon       | 36.7    | 36.3    | P/P       | 30 - 150       |
| 2061239       | Carbamazepine  | 71.9    | 74.9    | P/P       | 40 - 150       |
| 2061239       | Diuron         | 62.4    | 66.4    | P/P       | 40 - 150       |
| 2061239       | Fenuron        | 83.3    | 80.6    | P/P       | 40 - 150       |
| 2061239       | Fluridone      | 80.8    | 87.0    | P/P       | 40 - 150       |
| 2061239       | Hydrocodone    | 78.8    | 79.7    | P/P       | 40 - 150       |
| 2061239       | Ibuprofen      | 87.9    | 87.0    | P/P       | 40 - 150       |
| 2061239       | Imidacloprid   | 184     | 167     | F/F       | 40 - 150       |
| 2061239       | Linuron        | 66.6    | 70.5    | P/P       | 40 - 150       |
| 2061239       | MCP            | 88.5    | 79.5    | P/P       | 40 - 150       |
| 2061239       | Naproxen       | 51.7    | 50.3    | P/P       | 40 - 150       |
| 2061239       | Primidone      | 109     | 102     | P/P       | 40 - 150       |
| 2061239       | Pyraclostrobin | 78.7    | 76.3    | P/P       | 40 - 150       |
| 2061239       | Triclopyr      | 47.4    | 40.6    | P/P       | 40 - 150       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B  
Batch ID: P358749

| Spiked Sample | Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2061239       | Acesulfame K | 71.3    | 72.6    | P/P       | 40 - 150       |
| 2061239       | Endothall    | 25.1    | 20.9    | F/F       | 40 - 150       |
| 2061239       | Sucralose    | 101     | 109     | P/P       | 40 - 150       |
| 2061887       | AMPA         | 94.0    | 92.8    | P/P       | 40 - 150       |
| 2061887       | Glufosinate  | 80.5    | 85.4    | P/P       | 40 - 150       |
| 2061887       | Glyphosate   | 89.8    | 89.1    | P/P       | 40 - 140       |

Reference Method: SM 4500 F-C-97  
Batch ID: P359120

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2061983       | Fluoride  | 97.0    | 97.0    | P/P       | 91 - 105       |

Reference Method: SM 5310 B-00  
Batch ID: P359417

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2061196       | Organic Carbon | 96.3    | 94.6    | P/P       | 85 - 115       |

## Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P358679

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061379                  | Turbidity | 4.74      | Sample            | P         | 0 - 20         |

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P358715

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061045                  | Barium    | 1.14      | Spike             | P         | 0 - 20         |
| 2061045                  | Calcium   | 2.04      | Spike             | P         | 0 - 20         |
| 2061045                  | Iron      | 2.25      | Spike             | P         | 0 - 20         |
| 2061045                  | Magnesium | 2.35      | Spike             | P         | 0 - 20         |
| 2061045                  | Manganese | 1.17      | Spike             | P         | 0 - 20         |
| 2061045                  | Potassium | 2.85      | Spike             | P         | 0 - 20         |
| 2061045                  | Sodium    | 3.02      | Spike             | P         | 0 - 20         |
| 2061045                  | Zinc      | 1.53      | Spike             | P         | 0 - 20         |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P358715

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061045                  | Aluminum  | 1.49      | Spike             | P         | 0 - 20         |
| 2061045                  | Antimony  | 1.74      | Spike             | P         | 0 - 20         |
| 2061045                  | Arsenic   | 0.756     | Spike             | P         | 0 - 20         |
| 2061045                  | Boron     | 1.27      | Spike             | P         | 0 - 20         |
| 2061045                  | Cadmium   | 2.28      | Spike             | P         | 0 - 20         |
| 2061045                  | Chromium  | 2.89      | Spike             | P         | 0 - 20         |
| 2061045                  | Copper    | 1.60      | Spike             | P         | 0 - 20         |
| 2061045                  | Lead      | 0.739     | Spike             | P         | 0 - 20         |
| 2061045                  | Nickel    | 2.19      | Spike             | P         | 0 - 20         |
| 2061045                  | Selenium  | 1.37      | Spike             | P         | 0 - 20         |
| 2061045                  | Silver    | 1.10      | Spike             | P         | 0 - 20         |
| 2061045                  | Thallium  | 0.462     | Spike             | P         | 0 - 20         |

Reference Method: EPA 300.0  
Batch ID: P358982

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2058620                  | Bromide   | 0.790     | Sample            | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359447

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061149                  | Chloride  | 0.0772    | Sample            | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P359452

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061149                  | Sulfate   | 0.0441    | Sample            | P         | 0 - 20         |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P359056

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2060781                  | Ammonia-N | 0.658     | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P358835

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2061195                  | Kjeldahl Nitrogen | 1.18      | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P359018

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2061585                  | Kjeldahl Nitrogen | 4.54      | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P359302

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2063826                  | Kjeldahl Nitrogen | 0.455     | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358940

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061196                  | NO2NO3-N  | 0.858     | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P358941

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061381                  | NO2NO3-N  | 0.243     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P358858

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061198                  | Total-P   | 2.39      | Spike             | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P358814

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 2061677                  | O-Phosphate-P | 0.845     | Spike             | P         | 0 - 20         |

Reference Method: EPA 8270D  
Batch ID: P358680

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2061294                  | Acetochlor          | 4.18      | Spike             | P         | 0 - 30         |
| 2061294                  | Alachlor            | 4.02      | Spike             | P         | 0 - 30         |
| 2061294                  | Ametryn             | 33.5      | Spike             | F         | 0 - 30         |
| 2061294                  | Atrazine            | 1.35      | Spike             | P         | 0 - 30         |
| 2061294                  | Atrazine Desethyl   | 0.408     | Spike             | P         | 0 - 30         |
| 2061294                  | Azinphos Methyl     | 4.84      | Spike             | P         | 0 - 30         |
| 2061294                  | Bromacil            | 2.99      | Spike             | P         | 0 - 30         |
| 2061294                  | Butylate            | 18.6      | Spike             | P         | 0 - 30         |
| 2061294                  | Chlorpyrifos Ethyl  | 5.06      | Spike             | P         | 0 - 30         |
| 2061294                  | Chlorpyrifos Methyl | 3.98      | Spike             | P         | 0 - 30         |
| 2061294                  | Cyanazine           | 8.64      | Spike             | P         | 0 - 30         |
| 2061294                  | Demeton             | 22.3      | Spike             | P         | 0 - 30         |
| 2061294                  | Diazinon            | 0.732     | Spike             | P         | 0 - 30         |
| 2061294                  | Dimethenamid        | 3.67      | Spike             | P         | 0 - 30         |
| 2061294                  | Disulfoton          | 1.16      | Spike             | P         | 0 - 30         |
| 2061294                  | Dithiopyr           | 4.76      | Spike             | P         | 0 - 30         |
| 2061294                  | EPTC                | 25.1      | Spike             | P         | 0 - 30         |
| 2061294                  | Ethion              | 2.96      | Spike             | P         | 0 - 30         |
| 2061294                  | Ethoprop            | 5.52      | Spike             | P         | 0 - 30         |
| 2061294                  | Fenamiphos          | 17.7      | Spike             | P         | 0 - 30         |
| 2061294                  | Fipronil            | 12.9      | Spike             | P         | 0 - 30         |
| 2061294                  | Fipronil Desulfinyl | 10.1      | Spike             | P         | 0 - 30         |
| 2061294                  | Fipronil Sulfide    | 14.3      | Spike             | P         | 0 - 30         |
| 2061294                  | Fipronil Sulfone    | 19.3      | Spike             | P         | 0 - 30         |
| 2061294                  | Fonofos             | 7.75      | Spike             | P         | 0 - 30         |
| 2061294                  | Hexazinone          | 3.06      | Spike             | P         | 0 - 30         |
| 2061294                  | Malathion           | 0.437     | Spike             | P         | 0 - 30         |
| 2061294                  | Metalaxyl           | 3.68      | Spike             | P         | 0 - 30         |
| 2061294                  | Metolachlor         | 4.18      | Spike             | P         | 0 - 30         |
| 2061294                  | Metribuzin          | 0.452     | Spike             | P         | 0 - 30         |
| 2061294                  | Mevinphos           | 7.29      | Spike             | P         | 0 - 30         |
| 2061294                  | Molinate            | 5.27      | Spike             | P         | 0 - 30         |
| 2061294                  | Norflurazon         | 15.6      | Spike             | P         | 0 - 30         |
| 2061294                  | Oxadiazon           | 2.71      | Spike             | P         | 0 - 30         |
| 2061294                  | Parathion Ethyl     | 5.45      | Spike             | P         | 0 - 30         |
| 2061294                  | Parathion Methyl    | 1.81      | Spike             | P         | 0 - 30         |
| 2061294                  | Pendimethalin       | 6.30      | Spike             | P         | 0 - 30         |
| 2061294                  | Phorate             | 19.4      | Spike             | P         | 0 - 30         |
| 2061294                  | Prodiamine          | 0.444     | Spike             | P         | 0 - 30         |
| 2061294                  | Prometon            | 0.0937    | Spike             | P         | 0 - 30         |
| 2061294                  | Prometryn           | 4.94      | Spike             | P         | 0 - 30         |
| 2061294                  | Simazine            | 4.93      | Spike             | P         | 0 - 30         |
| 2061294                  | Tebuconazole        | 5.78      | Spike             | P         | 0 - 30         |
| 2061294                  | Terbufos            | 11.1      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270D  
Batch ID: P358680

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2061294                  | Terbutylazine       | 3.31      | Spike             | P         | 0 - 30         |
| LFB                      | Acetochlor          | 11.0      | LCS               | P         | 0 - 30         |
| LFB                      | Alachlor            | 15.7      | LCS               | P         | 0 - 30         |
| LFB                      | Ametryn             | 3.36      | LCS               | P         | 0 - 30         |
| LFB                      | Atrazine            | 4.00      | LCS               | P         | 0 - 30         |
| LFB                      | Atrazine Desethyl   | 60.9      | LCS               | F         | 0 - 30         |
| LFB                      | Azinphos Methyl     | 13.2      | LCS               | P         | 0 - 30         |
| LFB                      | Bromacil            | 7.00      | LCS               | P         | 0 - 30         |
| LFB                      | Butylate            | 0.553     | LCS               | P         | 0 - 30         |
| LFB                      | Chlorpyrifos Ethyl  | 12.3      | LCS               | P         | 0 - 30         |
| LFB                      | Chlorpyrifos Methyl | 11.1      | LCS               | P         | 0 - 30         |
| LFB                      | Cyanazine           | 26.2      | LCS               | P         | 0 - 30         |
| LFB                      | Demeton             | 6.67      | LCS               | P         | 0 - 30         |
| LFB                      | Diazinon            | 15.7      | LCS               | P         | 0 - 30         |
| LFB                      | Dimethenamid        | 12.2      | LCS               | P         | 0 - 30         |
| LFB                      | Disulfoton          | 3.09      | LCS               | P         | 0 - 30         |
| LFB                      | Dithiopyr           | 12.8      | LCS               | P         | 0 - 30         |
| LFB                      | EPTC                | 2.65      | LCS               | P         | 0 - 30         |
| LFB                      | Ethion              | 6.53      | LCS               | P         | 0 - 30         |
| LFB                      | Ethoprop            | 8.59      | LCS               | P         | 0 - 30         |
| LFB                      | Fenamiphos          | 1.40      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil            | 17.0      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil Desulfinyl | 14.4      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil Sulfide    | 2.43      | LCS               | P         | 0 - 30         |
| LFB                      | Fipronil Sulfone    | 3.22      | LCS               | P         | 0 - 30         |
| LFB                      | Fonofos             | 1.32      | LCS               | P         | 0 - 30         |
| LFB                      | Hexazinone          | 4.89      | LCS               | P         | 0 - 30         |
| LFB                      | Malathion           | 12.0      | LCS               | P         | 0 - 30         |
| LFB                      | Metalaxyl           | 22.2      | LCS               | P         | 0 - 30         |
| LFB                      | Metolachlor         | 5.15      | LCS               | P         | 0 - 30         |
| LFB                      | Metribuzin          | 79.3      | LCS               | F         | 0 - 30         |
| LFB                      | Mevinphos           | 9.91      | LCS               | P         | 0 - 30         |
| LFB                      | Molinate            | 4.23      | LCS               | P         | 0 - 30         |
| LFB                      | Norflurazon         | 19.8      | LCS               | P         | 0 - 30         |
| LFB                      | Oxadiazon           | 4.56      | LCS               | P         | 0 - 30         |
| LFB                      | Parathion Ethyl     | 2.68      | LCS               | P         | 0 - 30         |
| LFB                      | Parathion Methyl    | 26.6      | LCS               | P         | 0 - 30         |
| LFB                      | Pendimethalin       | 5.49      | LCS               | P         | 0 - 30         |
| LFB                      | Phorate             | 8.66      | LCS               | P         | 0 - 30         |
| LFB                      | Prodiamine          | 22.5      | LCS               | P         | 0 - 30         |
| LFB                      | Prometon            | 1.53      | LCS               | P         | 0 - 30         |
| LFB                      | Prometryn           | 6.93      | LCS               | P         | 0 - 30         |
| LFB                      | Simazine            | 12.3      | LCS               | P         | 0 - 30         |
| LFB                      | Tebuconazole        | 7.35      | LCS               | P         | 0 - 30         |
| LFB                      | Terbufos            | 3.35      | LCS               | P         | 0 - 30         |
| LFB                      | Terbutylazine       | 5.45      | LCS               | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270D  
Batch ID: P358685

| Replicated<br>Lab Sample | Component          | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------------|-----------|-------------------|-----------|----------------|
| 2061578                  | Aldrin             | 6.58      | Spike             | P         | 0 - 30         |
| 2061578                  | Alpha-BHC          | 15.0      | Spike             | P         | 0 - 30         |
| 2061578                  | Alpha-Chlordane    | 5.61      | Spike             | P         | 0 - 30         |
| 2061578                  | Beta-BHC           | 7.02      | Spike             | P         | 0 - 30         |
| 2061578                  | Carbophenothion    | 1.23      | Spike             | P         | 0 - 30         |
| 2061578                  | Chlorothalonil     | 82.9      | Spike             | F         | 0 - 30         |
| 2061578                  | Cypermethrin       | 2.46      | Spike             | P         | 0 - 30         |
| 2061578                  | DDD-p,p'           | 4.87      | Spike             | P         | 0 - 30         |
| 2061578                  | DDE-p,p'           | 4.62      | Spike             | P         | 0 - 30         |
| 2061578                  | DDT-p,p'           | 19.4      | Spike             | P         | 0 - 30         |
| 2061578                  | Delta-BHC          | 18.9      | Spike             | P         | 0 - 30         |
| 2061578                  | Dicofol            | 1.03      | Spike             | P         | 0 - 30         |
| 2061578                  | Dieldrin           | 4.71      | Spike             | P         | 0 - 30         |
| 2061578                  | Endosulfan I       | 2.36      | Spike             | P         | 0 - 30         |
| 2061578                  | Endosulfan II      | 6.88      | Spike             | P         | 0 - 30         |
| 2061578                  | Endosulfan Sulfate | 1.14      | Spike             | P         | 0 - 30         |
| 2061578                  | Endrin             | 0.778     | Spike             | P         | 0 - 30         |
| 2061578                  | Endrin Aldehyde    | 38.1      | Spike             | F         | 0 - 30         |
| 2061578                  | Endrin Ketone      | 4.16      | Spike             | P         | 0 - 30         |
| 2061578                  | Gamma-BHC          | 12.0      | Spike             | P         | 0 - 30         |
| 2061578                  | Gamma-Chlordane    | 6.31      | Spike             | P         | 0 - 30         |
| 2061578                  | Heptachlor         | 6.25      | Spike             | P         | 0 - 30         |
| 2061578                  | Heptachlor Epoxide | 4.62      | Spike             | P         | 0 - 30         |
| 2061578                  | Methoxychlor       | 9.46      | Spike             | P         | 0 - 30         |
| 2061578                  | Mirex              | 3.46      | Spike             | P         | 0 - 30         |
| 2061578                  | Permethrin         | 0.557     | Spike             | P         | 0 - 30         |
| 2061578                  | Trifluralin        | 6.06      | Spike             | P         | 0 - 30         |
| LFB                      | Aldrin             | 9.34      | LCS               | P         | 0 - 30         |
| LFB                      | Alpha-BHC          | 19.2      | LCS               | P         | 0 - 30         |
| LFB                      | Alpha-Chlordane    | 2.57      | LCS               | P         | 0 - 30         |
| LFB                      | Beta-BHC           | 13.2      | LCS               | P         | 0 - 30         |
| LFB                      | Carbophenothion    | 9.70      | LCS               | P         | 0 - 30         |
| LFB                      | Chlorothalonil     | 12.4      | LCS               | P         | 0 - 30         |
| LFB                      | Cypermethrin       | 4.21      | LCS               | P         | 0 - 30         |
| LFB                      | DDD-p,p'           | 3.96      | LCS               | P         | 0 - 30         |
| LFB                      | DDE-p,p'           | 2.17      | LCS               | P         | 0 - 30         |
| LFB                      | DDT-p,p'           | 2.06      | LCS               | P         | 0 - 30         |
| LFB                      | Delta-BHC          | 6.01      | LCS               | P         | 0 - 30         |
| LFB                      | Dicofol            | 12.9      | LCS               | P         | 0 - 30         |
| LFB                      | Dieldrin           | 2.65      | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan I       | 1.92      | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan II      | 11.1      | LCS               | P         | 0 - 30         |
| LFB                      | Endosulfan Sulfate | 15.9      | LCS               | P         | 0 - 30         |
| LFB                      | Endrin             | 9.21      | LCS               | P         | 0 - 30         |
| LFB                      | Endrin Aldehyde    | 12.4      | LCS               | P         | 0 - 30         |
| LFB                      | Endrin Ketone      | 12.5      | LCS               | P         | 0 - 30         |
| LFB                      | Gamma-BHC          | 2.07      | LCS               | P         | 0 - 30         |
| LFB                      | Gamma-Chlordane    | 2.95      | LCS               | P         | 0 - 30         |
| LFB                      | Heptachlor         | 0.494     | LCS               | P         | 0 - 30         |
| LFB                      | Heptachlor Epoxide | 4.08      | LCS               | P         | 0 - 30         |
| LFB                      | Methoxychlor       | 7.88      | LCS               | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8270D  
Batch ID: P358685

| Replicated<br>Lab Sample | Component   | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------|-----------|-------------------|-----------|----------------|
| LFB                      | Mirex       | 1.14      | LCS               | P         | 0 - 30         |
| LFB                      | Permethrin  | 2.72      | LCS               | P         | 0 - 30         |
| LFB                      | Trifluralin | 7.25      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8276  
Batch ID: P358685

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2062407                  | Chlordane | 13.6      | Spike             | P         | 0 - 30         |
| 2062407                  | Toxaphene | 24.8      | Spike             | P         | 0 - 30         |
| LFB                      | Chlordane | 4.23      | LCS               | P         | 0 - 30         |
| LFB                      | Toxaphene | 13.8      | LCS               | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P358573

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2061239                  | 2,4-D          | 4.88      | Spike             | P         | 0 - 30         |
| 2061239                  | Acetaminophen  | 2.21      | Spike             | P         | 0 - 30         |
| 2061239                  | Bentazon       | 0.308     | Spike             | P         | 0 - 30         |
| 2061239                  | Carbamazepine  | 3.99      | Spike             | P         | 0 - 30         |
| 2061239                  | Diuron         | 5.81      | Spike             | P         | 0 - 30         |
| 2061239                  | Fenuron        | 3.35      | Spike             | P         | 0 - 30         |
| 2061239                  | Fluridone      | 3.32      | Spike             | P         | 0 - 30         |
| 2061239                  | Hydrocodone    | 1.14      | Spike             | P         | 0 - 30         |
| 2061239                  | Ibuprofen      | 1.12      | Spike             | P         | 0 - 30         |
| 2061239                  | Imazapyr       | 24.4      | Spike             | P         | 0 - 30         |
| 2061239                  | Imidacloprid   | 7.98      | Spike             | P         | 0 - 30         |
| 2061239                  | Linuron        | 5.72      | Spike             | P         | 0 - 30         |
| 2061239                  | MCP            | 10.6      | Spike             | P         | 0 - 30         |
| 2061239                  | Naproxen       | 2.75      | Spike             | P         | 0 - 30         |
| 2061239                  | Primidone      | 6.24      | Spike             | P         | 0 - 30         |
| 2061239                  | Pyraclostrobin | 3.10      | Spike             | P         | 0 - 30         |
| 2061239                  | Triclopyr      | 15.6      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P358749

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2061239                  | Acesulfame K | 1.72      | Spike             | P         | 0 - 30         |
| 2061239                  | Endothall    | 18.5      | Spike             | P         | 0 - 30         |
| 2061239                  | Sucralose    | 5.41      | Spike             | P         | 0 - 30         |
| 2061887                  | AMPA         | 1.37      | Spike             | P         | 0 - 30         |
| 2061887                  | Glufosinate  | 5.80      | Spike             | P         | 0 - 30         |
| 2061887                  | Glyphosate   | 0.769     | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: SM 2120 B  
Batch ID: P358809

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2061375                  | Color (true) | 1.26      | Sample            | P         | 0 - 20         |

Reference Method: SM 2320 B-97  
Batch ID: P359115

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2061983                  | Total Alkalinity | 0.0959    | Sample            | P         | 0 - 1.6        |

Reference Method: SM 2540 C-97  
Batch ID: P359129

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061194                  | TDS       | 4.53      | Sample            | P         | 0 - 10         |

Reference Method: SM 4500 F-C-97  
Batch ID: P359120

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2061983                  | Fluoride  | 0.0       | Spike             | P         | 0 - 3.5        |

Reference Method: SM 5310 B-00  
Batch ID: P359417

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2061196                  | Organic Carbon | 1.32      | Spike             | P         | 0 - 20         |

\* Sample, spike and/or laboratory control sample precision (LCS) is reported.  
Replicate spike precision may be reported when sample results are below quantifiable levels.

## Quality Assurance Report Surrogates

Lab Sample ID: 2061399  
Field Sample ID: 20030593

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 85.1   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 111    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 65.5   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 62.0   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 101    | P         | 40 - 160       |
| EPA 8321B        | Endothall-d6       | 101    | P         | 40 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 56.1   | P         | 40 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 56.1   | P         | 40 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 68.8   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 101    | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 108    | P         | 40 - 160       |
| EPA 8321B        | Sucralose-d6       | 108    | P         | 40 - 160       |

Lab Sample ID: 2061578  
Field Sample ID: 20030518

| Reference Method | Surrogate            | % Rec. | Pass/Fail | Control Limits |
|------------------|----------------------|--------|-----------|----------------|
| EPA 8270D        | Decachlorobiphenyl   | 81.5   | P         | 39 - 109       |
| EPA 8270D        | Tetrachloro-m-xylene | 64.6   | P         | 28 - 96.0      |
| EPA 8276         | Decachlorobiphenyl   | 49.4   | P         | 30 - 103       |
| EPA 8276         | PCNB                 | 72.4   | P         | 37 - 143       |

Lab Sample ID: 2061579  
Field Sample ID: 20030518

| Reference Method | Surrogate    | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------|--------|-----------|----------------|
| EPA 8270D        | Simazine-d10 | 118    | P         | 68 - 130       |
| EPA 8270D        | Terbufos-d10 | 104    | P         | 61 - 136       |

Lab Sample ID: 2061581  
Field Sample ID: 20030518

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 90.5   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 104    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 66.8   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 66.3   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 120    | P         | 40 - 160       |
| EPA 8321B        | Endothall-d6       | 120    | P         | 40 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 43.4   | P         | 40 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 43.4   | P         | 40 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 83.2   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 103    | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 97.4   | P         | 40 - 160       |
| EPA 8321B        | Sucralose-d6       | 97.4   | P         | 40 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89332

Included Lab Sample IDs: 2061372, 2061375, 2061378, 2061379, 2061384

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Turbidity | 99.5    | 101     | P/P        | 95 - 105       |

Reference Method: SM 2120 B

Run ID: A89379

Included Lab Sample IDs: 2061375, 2061384

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Color (true) | 99.9    | 101     | P/P        | 90 - 115       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89380

Included Lab Sample IDs: 2061374, 2061377, 2061382, 2061383, 2061386

| Component     | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------|---------|---------|------------|----------------|
| O-Phosphate-P | 97.8    | 96.5    | P/P        | 90 - 110       |
| O-Phosphate-P | 98.5    | 97.8    | P/P        | 90 - 110       |

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A89387

Included Lab Sample IDs: 2061400, 2061401, 2061402, 2061403, 2061404

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Barium    | 99.5    | 99.2    | P/P        | 90 - 110       |
| Calcium   | 97.8    | 98.5    | P/P        | 90 - 110       |
| Iron      | 99.3    | 99.8    | P/P        | 90 - 110       |
| Iron      | 99.8    | 99.8    | P/P        | 90 - 110       |
| Magnesium | 99.6    | 99.4    | P/P        | 90 - 110       |
| Manganese | 102     | 102     | P/P        | 90 - 110       |
| Potassium | 97.7    | 98.8    | P/P        | 90 - 110       |
| Sodium    | 100     | 99.8    | P/P        | 90 - 110       |
| Zinc      | 100     | 101     | P/P        | 90 - 110       |
| Zinc      | 101     | 100     | P/P        | 90 - 110       |

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89405

Included Lab Sample IDs: 2061400, 2061401, 2061402, 2061403, 2061404

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Aluminum  | 103     | 106     | P/P        | 90 - 110       |
| Aluminum  | 106     | 106     | P/P        | 90 - 110       |
| Antimony  | 102     | 105     | P/P        | 90 - 110       |
| Antimony  | 105     | 105     | P/P        | 90 - 110       |
| Arsenic   | 102     | 103     | P/P        | 90 - 110       |
| Arsenic   | 102     | 102     | P/P        | 90 - 110       |
| Chromium  | 105     | 105     | P/P        | 90 - 110       |
| Chromium  | 105     | 106     | P/P        | 90 - 110       |
| Copper    | 106     | 107     | P/P        | 90 - 110       |
| Copper    | 106     | 106     | P/P        | 90 - 110       |
| Lead      | 101     | 102     | P/P        | 90 - 110       |
| Lead      | 102     | 104     | P/P        | 90 - 110       |
| Nickel    | 104     | 105     | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89405

Included Lab Sample IDs: 2061400, 2061401, 2061402, 2061403, 2061404

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Nickel    | 104     | 104     | P/P        | 90 - 110       |
| Selenium  | 103     | 104     | P/P        | 90 - 110       |
| Selenium  | 103     | 103     | P/P        | 90 - 110       |
| Silver    | 107     | 107     | P/P        | 90 - 110       |
| Silver    | 107     | 108     | P/P        | 90 - 110       |
| Thallium  | 103     | 104     | P/P        | 90 - 110       |
| Thallium  | 104     | 105     | P/P        | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89410

Included Lab Sample IDs: 2061373, 2061376, 2061380, 2061381, 2061385

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P   | 100     | 101     | P/P        | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89422

Included Lab Sample IDs: 2061373, 2061376, 2061380, 2061381, 2061385

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| NO2NO3-N  | 99.5    | 99.5    | P/P        | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89432

Included Lab Sample IDs: 2061373

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 101     | 104     | P/P        | 90 - 110       |

Reference Method: EPA 8270D

Run ID: A89434

Included Lab Sample IDs: 2061579

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Acetochlor          | 101     |         | P          | 80 - 120       |
| Alachlor            | 107     |         | P          | 80 - 120       |
| Ametryn             | 104     |         | P          | 80 - 120       |
| Atrazine Desethyl   | 97.3    |         | P          | 80 - 120       |
| Azinphos Methyl     | 103     |         | P          | 80 - 120       |
| Bromacil            | 102     |         | P          | 80 - 120       |
| Butylate            | 101     |         | P          | 80 - 120       |
| Chlorpyrifos Ethyl  | 102     |         | P          | 80 - 120       |
| Chlorpyrifos Methyl | 96.8    |         | P          | 80 - 120       |
| Cyanazine           | 101     |         | P          | 80 - 120       |
| Demeton             | 97.3    |         | P          | 80 - 120       |
| Diazinon            | 96.8    |         | P          | 80 - 120       |
| Dimethenamid        | 99.3    |         | P          | 80 - 120       |
| Disulfoton          | 98.9    |         | P          | 80 - 120       |
| Dithiopyr           | 106     |         | P          | 80 - 120       |
| EPTC                | 101     |         | P          | 80 - 120       |
| Ethion              | 95.4    |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89434

Included Lab Sample IDs: 2061579

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Ethoprop            | 99.9    |         | P          | 80 - 120       |
| Fenamiphos          | 105     |         | P          | 80 - 120       |
| Fipronil            | 102     |         | P          | 80 - 120       |
| Fipronil Desulfinyl | 105     |         | P          | 80 - 120       |
| Fipronil Sulfide    | 105     |         | P          | 80 - 120       |
| Fipronil Sulfone    | 106     |         | P          | 80 - 120       |
| Fonofos             | 99.0    |         | P          | 80 - 120       |
| Hexazinone          | 99.5    |         | P          | 80 - 120       |
| Malathion           | 97.3    |         | P          | 80 - 120       |
| Metalaxyl           | 102     |         | P          | 80 - 120       |
| Metolachlor         | 104     |         | P          | 80 - 120       |
| Metribuzin          | 82.6    |         | P          | 80 - 120       |
| Mevinphos           | 99.3    |         | P          | 80 - 120       |
| Molinate            | 101     |         | P          | 80 - 120       |
| Norflurazon         | 107     |         | P          | 80 - 120       |
| Oxadiazon           | 106     |         | P          | 80 - 120       |
| Parathion Ethyl     | 99.8    |         | P          | 80 - 120       |
| Parathion Methyl    | 89.0    |         | P          | 80 - 120       |
| Pendimethalin       | 86.7    |         | P          | 80 - 120       |
| Phorate             | 96.2    |         | P          | 80 - 120       |
| Prodiamine          | 106     |         | P          | 80 - 120       |
| Prometon            | 98.7    |         | P          | 80 - 120       |
| Prometryn           | 102     |         | P          | 80 - 120       |
| Simazine            | 105     |         | P          | 80 - 120       |
| Tebuconazole        | 106     |         | P          | 80 - 120       |
| Terbufos            | 97.1    |         | P          | 80 - 120       |
| Terbutylazine       | 99.5    |         | P          | 80 - 120       |

Reference Method: EPA 300.0

Run ID: A89435

Included Lab Sample IDs: 2061372, 2061375, 2061378, 2061379

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Bromide   | 96.0    | 98.5    | P/P        | 90 - 110       |
| Bromide   | 99.0    | 102     | P/P        | 90 - 110       |

Reference Method: EPA 8321B

Run ID: A89461

Included Lab Sample IDs: 2061399, 2061581

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Sucralose | 105     | 84.8    | P/P        | 60 - 160       |
| Sucralose | 84.8    | 97.5    | P/P        | 60 - 160       |

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89467

Included Lab Sample IDs: 2061373, 2061376, 2061380, 2061381, 2061385

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Ammonia-N | 100     | 101     | P/P        | 90 - 110       |
| Ammonia-N | 102     | 100     | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89470

Included Lab Sample IDs: 2061400, 2061401, 2061402, 2061403, 2061404

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Boron     | 102     | 97.4    | P/P        | 90 - 110       |
| Cadmium   | 100     | 95.6    | P/P        | 90 - 110       |
| Cadmium   | 96.9    | 100     | P/P        | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89481

Included Lab Sample IDs: 2061380, 2061381, 2061385

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 103     | 98.7    | P/P        | 90 - 110       |
| Kjeldahl Nitrogen | 98.7    | 103     | P/P        | 90 - 110       |

Reference Method: SM 2320 B-97

Run ID: A89490

Included Lab Sample IDs: 2061372, 2061375, 2061378, 2061379, 2061384

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Total Alkalinity | 102     | 99.3    | P/P        | 90 - 110       |

Reference Method: SM 4500 F-C-97

Run ID: A89490

Included Lab Sample IDs: 2061372, 2061375, 2061378, 2061379, 2061384

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Fluoride  | 97.6    | 95.8    | P/P        | 90 - 110       |

Reference Method: EPA 8276

Run ID: A89496

Included Lab Sample IDs: 2061578

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Toxaphene | 91.8    |         | P          | 80 - 120       |

Reference Method: EPA 8321B

Run ID: A89502

Included Lab Sample IDs: 2061399, 2061581

| Component     | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------|---------|---------|------------|----------------|
| 2,4-D         | 80.2    | 83.8    | P/P        | 50 - 150       |
| Acetaminophen | 111     | 104     | P/P        | 60 - 160       |
| Bentazon      | 74.6    | 79.6    | P/P        | 50 - 160       |
| Carbamazepine | 98.4    | 97.9    | P/P        | 60 - 150       |
| Diuron        | 89.5    | 97.1    | P/P        | 60 - 150       |
| Fenuron       | 97.0    | 95.0    | P/P        | 60 - 150       |
| Fluridone     | 104     | 106     | P/P        | 60 - 160       |
| Hydrocodone   | 98.7    | 81.1    | P/P        | 60 - 150       |
| Ibuprofen     | 82.8    | 90.6    | P/P        | 50 - 160       |
| Imazapyr      | 63.5    | 76.3    | P/P        | 50 - 150       |
| Imidacloprid  | 93.7    | 98.6    | P/P        | 60 - 150       |
| Linuron       | 104     | 101     | P/P        | 60 - 150       |
| MCPP          | 87.0    | 89.2    | P/P        | 50 - 150       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A89502

Included Lab Sample IDs: 2061399, 2061581

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Naproxen       | 93.1    | 112     | P/P        | 50 - 160       |
| Primidone      | 91.5    | 101     | P/P        | 60 - 150       |
| Pyraclostrobin | 111     | 109     | P/P        | 60 - 150       |
| Triclopyr      | 82.1    | 91.2    | P/P        | 50 - 150       |

Reference Method: EPA 8270D

Run ID: A89546

Included Lab Sample IDs: 2061578

| Component          | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------------|---------|---------|------------|----------------|
| Aldrin             | 94.4    |         | P          | 80 - 120       |
| Alpha-BHC          | 97.0    |         | P          | 80 - 120       |
| Alpha-Chlordane    | 95.8    |         | P          | 80 - 120       |
| Beta-BHC           | 89.7    |         | P          | 80 - 120       |
| Carbophenothion    | 89.7    |         | P          | 80 - 120       |
| Chlorothalonil     | 97.0    |         | P          | 80 - 120       |
| Cypermethrin       | 87.9    |         | P          | 80 - 120       |
| DDD-p,p'           | 98.5    |         | P          | 80 - 120       |
| DDE-p,p'           | 97.6    |         | P          | 80 - 120       |
| DDT-p,p'           | 101     |         | P          | 80 - 120       |
| Delta-BHC          | 90.6    |         | P          | 80 - 120       |
| Dicofol            | 99.6    |         | P          | 80 - 120       |
| Dieldrin           | 96.6    |         | P          | 80 - 120       |
| Endosulfan I       | 94.4    |         | P          | 80 - 120       |
| Endosulfan II      | 91.5    |         | P          | 80 - 120       |
| Endosulfan Sulfate | 96.3    |         | P          | 80 - 120       |
| Endrin             | 92.3    |         | P          | 80 - 120       |
| Endrin Aldehyde    | 91.1    |         | P          | 80 - 120       |
| Endrin Ketone      | 95.2    |         | P          | 80 - 120       |
| Gamma-BHC          | 96.9    |         | P          | 80 - 120       |
| Gamma-Chlordane    | 96.0    |         | P          | 80 - 120       |
| Heptachlor         | 92.9    |         | P          | 80 - 120       |
| Heptachlor Epoxide | 96.0    |         | P          | 80 - 120       |
| Methoxychlor       | 99.7    |         | P          | 80 - 120       |
| Mirex              | 97.3    |         | P          | 80 - 120       |
| Permethrin         | 90.1    |         | P          | 80 - 120       |
| Trifluralin        | 96.6    |         | P          | 80 - 120       |

Reference Method: EPA 8270D

Run ID: A89557

Included Lab Sample IDs: 2061579

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Atrazine  | 103     |         | P          | 80 - 120       |

Reference Method: EPA 8321B

Run ID: A89578

Included Lab Sample IDs: 2061399, 2061581

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| AMPA      | 91.4    | 101     | P/P        | 60 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A89578

Included Lab Sample IDs: 2061399, 2061581

| Component   | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------|---------|---------|------------|----------------|
| Glufosinate | 99.3    | 104     | P/P        | 60 - 160       |
| Glyphosate  | 98.9    | 112     | P/P        | 60 - 160       |

Reference Method: EPA 8276

Run ID: A89581

Included Lab Sample IDs: 2061578

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chlordane | 91.4    |         | P          | 80 - 120       |

Reference Method: EPA 8321B

Run ID: A89585

Included Lab Sample IDs: 2061399, 2061581

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 103     | 97.9    | P/P        | 60 - 160       |
| Endothall    | 86.5    | 94.4    | P/P        | 60 - 160       |

Reference Method: SM 5310 B-00

Run ID: A89603

Included Lab Sample IDs: 2061373, 2061376, 2061380, 2061381, 2061385

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Organic Carbon | 93.7    | 94.8    | P/P        | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89617

Included Lab Sample IDs: 2061384

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chloride  | 101     | 102     | P/P        | 90 - 110       |
| Sulfate   | 101     | 101     | P/P        | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89639

Included Lab Sample IDs: 2061376

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 94.7    | 98.7    | P/P        | 90 - 110       |

\* 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 |      |       | LCS | Precision<br>SMP | MS    |
|------------------------------|---------------------|----------------|------|---------------|------|-------|-----|------------------|-------|
| EPA 180.1 Rev. 2.0           | Turbidity           |                |      |               |      |       |     | 4.74             |       |
| EPA 200.7 Rev. 4.4           | Barium              | 102            |      | 101           | 104  | 102   |     |                  | 1.14  |
|                              | Calcium             | 105            |      | 103           | 102  |       |     |                  | 2.04  |
|                              | Iron                | 109            |      | 107           | 108  | 105   |     |                  | 2.25  |
|                              | Magnesium           | 113            |      | 102           | 111  | 108   |     |                  | 2.35  |
|                              | Manganese           | 101            |      | 99.5          | 103  | 102   |     |                  | 1.17  |
|                              | Potassium           | 110            |      | 108           | 106  | 102   |     |                  | 2.85  |
|                              | Sodium              | 107            |      | 108           | 107  |       |     |                  | 3.02  |
|                              | Zinc                | 101            |      | 101           | 106  | 104   |     |                  | 1.53  |
| EPA 200.8 Rev. 5.4           | Aluminum            | 101            |      | 99.4          | 102  | 100   |     |                  | 1.49  |
|                              | Antimony            | 100            |      | 102           | 103  | 101   |     |                  | 1.74  |
|                              | Arsenic             | 105            |      | 103           | 103  | 102   |     |                  | 0.756 |
|                              | Boron               | 99.9           |      | 104           | 110  | 109   |     |                  | 1.27  |
|                              | Cadmium             | 110            |      | 109           | 112  | 110   |     |                  | 2.28  |
|                              | Chromium            | 101            |      | 99.8          | 103  | 100   |     |                  | 2.89  |
|                              | Copper              | 101            |      | 98.0          | 99.4 | 97.8  |     |                  | 1.60  |
|                              | Lead                | 93.5           |      | 98.3          | 98.4 | 97.7  |     |                  | 0.739 |
|                              | Nickel              | 102            |      | 98.5          | 101  | 98.7  |     |                  | 2.19  |
|                              | Selenium            | 103            |      | 101           | 99.5 | 98.1  |     |                  | 1.37  |
|                              | Silver              | 103            |      | 104           | 104  | 103   |     |                  | 1.10  |
|                              | Thallium            | 103            |      | 111           | 110  | 111   |     |                  | 0.462 |
| EPA 300.0                    | Bromide             | 100            |      | 96.0          | 96.0 |       |     | 0.790            |       |
| EPA 300.0 Rev. 2.1           | Chloride            | 100            |      | 97.4          | 96.3 |       |     | 0.0772           |       |
|                              | Sulfate             | 101            |      | 96.7          | 98.2 |       |     | 0.0441           |       |
| EPA 350.1 Rev. 2.0           | Ammonia-N           | 100            |      | 101           | 102  |       |     |                  | 0.658 |
| EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen   | 101            |      | 100           | 102  |       |     |                  | 1.18  |
|                              | Kjeldahl Nitrogen   | 104            |      | 99.6          | 107  |       |     |                  | 4.54  |
|                              | Kjeldahl Nitrogen   | 100            |      |               |      |       |     |                  | 0.455 |
| EPA 353.2 Rev. 2.0           | NO2NO3-N            | 99.5           |      | 101           | 99.6 |       |     |                  | 0.858 |
|                              | NO2NO3-N            | 100            |      | 97.0          |      |       |     |                  | 0.243 |
| EPA 365.1 Rev. 2.0           | Total-P             | 99.5           |      | 104           | 101  |       |     |                  | 2.39  |
| EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P       | 97.5           |      | 95.1          | 96.1 |       |     |                  | 0.845 |
| EPA 8270D                    | Acetochlor          | 99.4           | 89.0 | 81.3          | 84.8 | 11.0  |     |                  | 4.18  |
|                              | Alachlor            | 102            | 87.4 | 84.6          | 88.1 | 15.7  |     |                  | 4.02  |
|                              | Aldrin              | 58.0           | 52.8 | 68.8          | 64.4 | 9.34  |     |                  | 6.58  |
|                              | Alpha-BHC           | 87.6           | 106  | 117           | 101  | 19.2  |     |                  | 15.0  |
|                              | Alpha-Chlordane     | 84.4           | 86.6 | 82.7          | 78.2 | 2.57  |     |                  | 5.61  |
|                              | Ametryn             | 90.9           | 87.9 | 130           | 92.7 | 3.36  |     |                  | 33.5  |
|                              | Atrazine            | 104            | 99.6 |               |      | 4.00  |     |                  | 1.35  |
|                              | Atrazine Desethyl   | 106            | 56.6 | 97.4          | 96.9 | 60.9  |     |                  | 0.408 |
|                              | Azinphos Methyl     | 126            | 111  | 105           | 111  | 13.2  |     |                  | 4.84  |
|                              | Beta-BHC            | 109            | 124  | 89.9          | 83.8 | 13.2  |     |                  | 7.02  |
|                              | Bromacil            | 68.2           | 63.5 | 79.2          | 76.9 | 7.00  |     |                  | 2.99  |
|                              | Butylate            | 60.1           | 59.7 | 66.6          | 55.2 | 0.553 |     |                  | 18.6  |
|                              | Carbophenothion     | 70.1           | 77.2 | 94.7          | 93.5 | 9.70  |     |                  | 1.23  |
|                              | Chlorothalonil      | 118            | 134  | 71.0          | 172  | 12.4  |     |                  | 82.9  |
|                              | Chlorpyrifos Ethyl  | 98.0           | 111  | 86.7          | 91.2 | 12.3  |     |                  | 5.06  |
|                              | Chlorpyrifos Methyl | 98.5           | 88.2 | 94.4          | 90.7 | 11.1  |     |                  | 3.98  |
|                              | Cyanazine           | 134            | 103  | 147           | 135  | 26.2  |     |                  | 8.64  |
|                              | Cypermethrin        | 72.6           | 75.7 | 81.0          | 83.0 | 4.21  |     |                  | 2.46  |
|                              | DDD-p,p'            | 93.7           | 97.5 | 85.1          | 81.1 | 3.96  |     |                  | 4.87  |
|                              | DDE-p,p'            | 86.7           | 88.6 | 80.4          | 76.7 | 2.17  |     |                  | 4.62  |
|                              | DDT-p,p'            | 96.2           | 94.2 | 117           | 96.6 | 2.06  |     |                  | 19.4  |
|                              | Delta-BHC           | 125            | 132  | 143           | 118  | 6.01  |     |                  | 18.9  |

## Quality Assurance Report Summary

| Ref. Method | Analyte             | LCS % Recovery |      | MS % Recovery |      | Precision |        |
|-------------|---------------------|----------------|------|---------------|------|-----------|--------|
|             |                     |                |      |               |      | LCS       | MS     |
|             |                     |                |      |               |      | SMP       |        |
| EPA 8270D   | Demeton             | 73.8           | 69.1 | 106           | 84.4 | 6.67      | 22.3   |
|             | Diazinon            | 99.2           | 84.8 | 101           | 102  | 15.7      | 0.732  |
|             | Dicofol             | 87.8           | 99.9 | 78.0          | 77.2 | 12.9      | 1.03   |
|             | Dieldrin            | 89.4           | 91.8 | 84.5          | 80.6 | 2.65      | 4.71   |
|             | Dimethenamid        | 100            | 88.7 | 82.8          | 85.9 | 12.2      | 3.67   |
|             | Disulfoton          | 85.4           | 82.8 | 104           | 102  | 3.09      | 1.16   |
|             | Dithiopyr           | 99.5           | 87.6 | 89.3          | 93.7 | 12.8      | 4.76   |
|             | Endosulfan I        | 90.3           | 92.1 | 85.3          | 87.3 | 1.92      | 2.36   |
|             | Endosulfan II       | 85.0           | 95.0 | 103           | 96.1 | 11.1      | 6.88   |
|             | Endosulfan Sulfate  | 69.6           | 81.6 | 75.3          | 74.5 | 15.9      | 1.14   |
|             | Endrin              | 94.4           | 86.0 | 85.1          | 84.5 | 9.21      | 0.778  |
|             | Endrin Aldehyde     | 85.5           | 96.7 | 58.7          | 86.3 | 12.4      | 38.1   |
|             | Endrin Ketone       | 71.6           | 81.1 | 78.1          | 74.9 | 12.5      | 4.16   |
|             | EPTC                | 61.1           | 59.5 | 65.5          | 50.9 | 2.65      | 25.1   |
|             | Ethion              | 90.8           | 96.9 | 92.0          | 89.3 | 6.53      | 2.96   |
|             | Ethoprop            | 84.2           | 77.3 | 102           | 96.4 | 8.59      | 5.52   |
|             | Fenamiphos          | 85.0           | 86.2 | 92.1          | 77.1 | 1.40      | 17.7   |
|             | Fipronil            | 95.0           | 80.1 | 81.8          | 71.8 | 17.0      | 12.9   |
|             | Fipronil Desulfinyl | 91.2           | 78.9 | 67.1          | 60.0 | 14.4      | 10.1   |
|             | Fipronil Sulfide    | 89.0           | 91.1 | 66.2          | 54.9 | 2.43      | 14.3   |
|             | Fipronil Sulfone    | 78.1           | 75.7 | 50.5          | 35.4 | 3.22      | 19.3   |
|             | Fonofos             | 86.8           | 88.0 | 105           | 96.9 | 1.32      | 7.75   |
|             | Gamma-BHC           | 115            | 118  | 123           | 109  | 2.07      | 12.0   |
|             | Gamma-Chlordane     | 82.2           | 84.7 | 82.9          | 77.9 | 2.95      | 6.31   |
|             | Heptachlor          | 67.4           | 67.0 | 74.3          | 69.8 | 0.494     | 6.25   |
|             | Heptachlor Epoxide  | 85.1           | 88.7 | 88.9          | 84.9 | 4.08      | 4.62   |
|             | Hexazinone          | 105            | 100  | 113           | 110  | 4.89      | 3.06   |
|             | Malathion           | 93.4           | 105  | 80.1          | 80.4 | 12.0      | 0.437  |
|             | Metalaxyl           | 97.4           | 77.9 | 89.8          | 86.6 | 22.2      | 3.68   |
|             | Methoxychlor        | 104            | 113  | 91.5          | 101  | 7.88      | 9.46   |
|             | Metolachlor         | 90.4           | 95.2 | 81.4          | 84.9 | 5.15      | 4.18   |
|             | Metribuzin          | 202            | 87.2 | 216           | 217  | 79.3      | 0.452  |
|             | Mevinphos           | 81.2           | 73.5 | 104           | 96.5 | 9.91      | 7.29   |
|             | Mirex               | 64.0           | 63.2 | 67.7          | 65.4 | 1.14      | 3.46   |
|             | Molinate            | 65.2           | 62.5 | 62.9          | 59.7 | 4.23      | 5.27   |
|             | Norflurazon         | 93.7           | 76.8 | 79.3          | 67.8 | 19.8      | 15.6   |
|             | Oxadiazon           | 93.1           | 97.4 | 82.8          | 85.5 | 4.56      | 2.71   |
|             | Parathion Ethyl     | 92.7           | 90.3 | 92.0          | 87.1 | 2.68      | 5.45   |
|             | Parathion Methyl    | 104            | 80.0 | 106           | 104  | 26.6      | 1.81   |
|             | Pendimethalin       | 85.6           | 81.0 | 100           | 94.1 | 5.49      | 6.30   |
|             | Permethrin          | 66.0           | 67.8 | 81.9          | 81.5 | 2.72      | 0.557  |
|             | Phorate             | 75.8           | 69.5 | 94.5          | 77.8 | 8.66      | 19.4   |
|             | Prodiamine          | 62.5           | 78.4 | 67.3          | 67.0 | 22.5      | 0.444  |
|             | Prometon            | 81.3           | 80.1 | 76.0          | 76.1 | 1.53      | 0.0937 |
|             | Prometryn           | 86.3           | 80.5 | 82.2          | 78.2 | 6.93      | 4.94   |
|             | Simazine            | 110            | 97.1 | 126           | 133  | 12.3      | 4.93   |
|             | Tebuconazole        | 78.2           | 72.7 | 69.4          | 65.5 | 7.35      | 5.78   |
|             | Terbufos            | 85.1           | 82.3 | 107           | 96.0 | 3.35      | 11.1   |
|             | Terbutylazine       | 90.8           | 95.9 | 85.2          | 82.4 | 5.45      | 3.31   |
|             | Trifluralin         | 85.4           | 91.8 | 93.1          | 87.7 | 7.25      | 6.06   |
| EPA 8276    | Chlordane           | 77.7           | 81.0 | 62.7          | 54.7 | 4.23      | 13.6   |
|             | Toxaphene           | 57.9           | 66.6 | 50.5          | 39.4 | 13.8      | 24.8   |
| EPA 8321B   | 2,4-D               | 60.5           |      | 65.3          | 70.1 |           | 4.88   |
|             | Acesulfame K        | 112            |      | 71.3          | 72.6 |           | 1.72   |

## Quality Assurance Report Summary

| Ref. Method    | Analyte          | LCS % Recovery | MS % Recovery |      | Precision |       |
|----------------|------------------|----------------|---------------|------|-----------|-------|
|                |                  |                |               |      | LCS       | MS    |
| EPA 8321B      | Acetaminophen    | 82.2           | 116           | 118  |           | 2.21  |
|                | AMPA             | 103            | 94.0          | 92.8 |           | 1.37  |
|                | Bentazon         | 64.9           | 36.3          | 36.7 |           | 0.308 |
|                | Carbamazepine    | 85.2           | 74.9          | 71.9 |           | 3.99  |
|                | Diuron           | 83.0           | 66.4          | 62.4 |           | 5.81  |
|                | Endothall        | 100            | 25.1          | 20.9 |           | 18.5  |
|                | Fenuron          | 101            | 80.6          | 83.3 |           | 3.35  |
|                | Fluridone        | 101            | 87.0          | 80.8 |           | 3.32  |
|                | Glufosinate      | 94.1           | 80.5          | 85.4 |           | 5.80  |
|                | Glyphosate       | 107            | 89.8          | 89.1 |           | 0.769 |
|                | Hydrocodone      | 96.7           | 79.7          | 78.8 |           | 1.14  |
|                | Ibuprofen        | 75.9           | 87.0          | 87.9 |           | 1.12  |
|                | Imazapyr         | 74.4           |               |      |           | 24.4  |
|                | Imidacloprid     | 111            | 167           | 184  |           | 7.98  |
|                | Linuron          | 82.4           | 70.5          | 66.6 |           | 5.72  |
|                | MCP              | 79.2           | 79.5          | 88.5 |           | 10.6  |
|                | Naproxen         | 70.7           | 50.3          | 51.7 |           | 2.75  |
|                | Primidone        | 94.4           | 102           | 109  |           | 6.24  |
|                | Pyraclostrobin   | 78.1           | 76.3          | 78.7 |           | 3.10  |
|                | Sucralose        | 99.4           | 101           | 109  |           | 5.41  |
|                | Triclopyr        | 50.5           | 40.6          | 47.4 |           | 15.6  |
| SM 2120 B      | Color (true)     | 99.7           |               |      | 1.26      |       |
| SM 2320 B-97   | Total Alkalinity | 102            |               |      | 0.0959    |       |
| SM 2540 C-97   | TDS              |                |               |      | 4.53      |       |
| SM 4500 F-C-97 | Fluoride         | 94.0           | 97.0          | 97.0 |           | 0.0   |
| SM 5310 B-00   | Organic Carbon   | 95.8           | 96.3          | 94.6 |           | 1.32  |

## Reference Method Descriptions

| Method / DoH Cert #                   | Description                                                                                                               | Associated Samples                          |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| EPA 180.1 Rev. 2.0 / E31780           | Turbidity in aqueous matrices                                                                                             | 2061372, 2061375, 2061378, 2061379, 2061384 |
| EPA 200.7 Rev. 4.4 / E31780           | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 2061400, 2061401, 2061402, 2061403, 2061404 |
| EPA 200.8 Rev. 5.4 / E31780           | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    | 2061400, 2061401, 2061402, 2061403, 2061404 |
| EPA 300.0 / E31780                    | Bromide in aqueous matrices                                                                                               | 2061372, 2061375, 2061378, 2061379          |
| EPA 300.0 Rev. 2.1 / E31780           | Chloride in aqueous matrices                                                                                              | 2061384                                     |
| EPA 300.0 Rev. 2.1 / E31780           | Sulfate in aqueous matrices                                                                                               | 2061384                                     |
| EPA 350.1 Rev. 2.0 / E31780           | Ammonia in aqueous matrices as mg N/L                                                                                     | 2061373, 2061376, 2061380, 2061381, 2061385 |
| EPA 351.2 Rev. 2.0 / E31780           | Total Kjeldahl Nitrogen in aqueous matrices                                                                               | 2061373, 2061376, 2061380, 2061381, 2061385 |
| EPA 353.2 Rev. 2.0 / E31780           | Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             | 2061373, 2061376, 2061380, 2061381, 2061385 |
| EPA 365.1 Rev. 2.0 / E31780           | Total Phosphorus in aqueous matrices as mg P/L                                                                            | 2061373, 2061376, 2061380, 2061381, 2061385 |
| EPA 365.1 Rev. 2.0 dissolved / E31780 | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                                       | 2061374, 2061377, 2061382, 2061383, 2061386 |
| EPA 8270D / E31780                    | Organochlorine pesticides in water matrices by GC/MS-SIM                                                                  | 2061578                                     |
| EPA 8270D / E31780                    | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                                                    | 2061579                                     |
| EPA 8276 / E31780                     | Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization                                    | 2061578                                     |

## Reference Method Descriptions

| Method / DoH Cert #     | Description                                                                         | Associated Samples                          |
|-------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|
| EPA 8321B / E31780      | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS         | 2061399, 2061581                            |
| EPA 8321B / E31780      | Water soluble organic compounds by HPLC/MS/MS                                       | 2061399, 2061581                            |
| SM 2120 B / E31780      | True Color measured at 450 nm                                                       | 2061375, 2061384                            |
| SM 2320 B-97 / E31780   | Alkalinity in aqueous matrices as mg CaCO3/L                                        | 2061372, 2061375, 2061378, 2061379, 2061384 |
| SM 2540 C-97 / E31780   | Total Dissolved Solids in aqueous matrices                                          | 2061384                                     |
| SM 2540 D-97 / E31780   | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample      | 2061372, 2061375, 2061378, 2061379, 2061384 |
| SM 4500 F-C-97 / E31780 | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) | 2061372, 2061375, 2061378, 2061379, 2061384 |
| SM 5310 B-00 / E31780   | Nonpurgeable Organic Carbon in aqueous matrices                                     | 2061373, 2061376, 2061380, 2061381, 2061385 |

## Preparation and Analysis Log

| Ref. Method        | Received Date | Prep Date/Time   | Prepared By      | Analysis Date/Time | Analyzed By        | Associated Samples                          |
|--------------------|---------------|------------------|------------------|--------------------|--------------------|---------------------------------------------|
| EPA 180.1 Rev. 2.0 | 02/09/2019    |                  |                  | 02/11/2019 12:16   | Adrian Shelby      | 2061372, 2061375, 2061378, 2061379, 2061384 |
| EPA 200.7 Rev. 4.4 | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/12/2019 17:53   | Martin Acosta      | 2061400                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/12/2019 17:58   | Martin Acosta      | 2061401                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/12/2019 18:03   | Martin Acosta      | 2061402                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/12/2019 18:07   | Martin Acosta      | 2061403                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/12/2019 18:30   | Martin Acosta      | 2061404                                     |
| EPA 200.8 Rev. 5.4 | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/13/2019 22:29   | Robert K Palmer    | 2061400                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/13/2019 22:39   | Robert K Palmer    | 2061401                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/13/2019 22:48   | Robert K Palmer    | 2061402                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/13/2019 23:17   | Robert K Palmer    | 2061403                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/13/2019 23:26   | Robert K Palmer    | 2061404                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/15/2019 18:35   | Robert K Palmer    | 2061400                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/15/2019 18:41   | Robert K Palmer    | 2061401                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/15/2019 18:47   | Robert K Palmer    | 2061402                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/15/2019 19:06   | Robert K Palmer    | 2061403                                     |
|                    | 02/09/2019    | 02/11/2019 16:45 | Elliott D. Healy | 02/15/2019 19:12   | Robert K Palmer    | 2061404                                     |
| EPA 300.0          | 02/09/2019    |                  |                  | 02/14/2019 14:46   | Lipi Saha          | 2061372                                     |
|                    | 02/09/2019    |                  |                  | 02/14/2019 19:20   | Lipi Saha          | 2061375                                     |
|                    | 02/09/2019    |                  |                  | 02/14/2019 19:37   | Lipi Saha          | 2061378                                     |
|                    | 02/09/2019    |                  |                  | 02/14/2019 19:54   | Lipi Saha          | 2061379                                     |
| EPA 300.0 Rev. 2.1 | 02/09/2019    |                  |                  | 02/22/2019 18:00   | Lipi Saha          | 2061384                                     |
| EPA 350.1 Rev. 2.0 | 02/09/2019    |                  |                  | 02/15/2019 11:51   | Ping Hua           | 2061373                                     |
|                    | 02/09/2019    |                  |                  | 02/15/2019 12:00   | Ping Hua           | 2061376                                     |
|                    | 02/09/2019    |                  |                  | 02/15/2019 12:01   | Ping Hua           | 2061380                                     |
|                    | 02/09/2019    |                  |                  | 02/15/2019 12:03   | Ping Hua           | 2061381                                     |
|                    | 02/09/2019    |                  |                  | 02/15/2019 12:04   | Ping Hua           | 2061385                                     |
| EPA 351.2 Rev. 2.0 | 02/09/2019    | 02/13/2019 12:15 | Adrian Shelby    | 02/14/2019 14:53   | Joseph Suarez      | 2061373                                     |
|                    | 02/09/2019    | 02/15/2019 12:45 | Adrian Shelby    | 02/18/2019 12:03   | Joseph Suarez      | 2061380                                     |
|                    | 02/09/2019    | 02/15/2019 12:45 | Adrian Shelby    | 02/18/2019 12:05   | Joseph Suarez      | 2061381                                     |
|                    | 02/09/2019    | 02/15/2019 12:45 | Adrian Shelby    | 02/18/2019 12:09   | Joseph Suarez      | 2061385                                     |
|                    | 02/09/2019    | 02/21/2019 16:30 | Adrian Shelby    | 02/22/2019 15:44   | Joseph Suarez      | 2061376                                     |
| EPA 353.2 Rev. 2.0 | 02/09/2019    |                  |                  | 02/14/2019 11:48   | Beverly Y. Sanders | 2061373                                     |
|                    | 02/09/2019    |                  |                  | 02/14/2019 11:49   | Beverly Y. Sanders | 2061376                                     |
|                    | 02/09/2019    |                  |                  | 02/14/2019 11:50   | Beverly Y. Sanders | 2061380                                     |
|                    | 02/09/2019    |                  |                  | 02/14/2019 11:57   | Beverly Y. Sanders | 2061381                                     |
|                    | 02/09/2019    |                  |                  | 02/14/2019 12:03   | Beverly Y. Sanders | 2061385                                     |
| EPA 365.1 Rev. 2.0 | 02/09/2019    | 02/13/2019 12:40 | Sima Feizi       | 02/13/2019 18:47   | Rosalyn Ballman    | 2061373                                     |
|                    | 02/09/2019    | 02/13/2019 12:40 | Sima Feizi       | 02/13/2019 18:48   | Rosalyn Ballman    | 2061376                                     |
|                    | 02/09/2019    | 02/13/2019 12:40 | Sima Feizi       | 02/13/2019 18:49   | Rosalyn Ballman    | 2061380                                     |

## Preparation and Analysis Log

| Ref. Method                  | Received Date | Prep Date/Time   | Prepared By    | Analysis Date/Time | Analyzed By           | Associated Samples                          |
|------------------------------|---------------|------------------|----------------|--------------------|-----------------------|---------------------------------------------|
| EPA 365.1 Rev. 2.0           | 02/09/2019    | 02/13/2019 12:40 | Sima Feizi     | 02/13/2019 18:50   | Rosalyn Ballman       | 2061381                                     |
|                              | 02/09/2019    | 02/13/2019 12:40 | Sima Feizi     | 02/13/2019 18:51   | Rosalyn Ballman       | 2061385                                     |
| EPA 365.1 Rev. 2.0 dissolved | 02/09/2019    |                  |                | 02/12/2019 16:07   | Jhamieka S. Greenwood | 2061374                                     |
|                              | 02/09/2019    |                  |                | 02/12/2019 16:08   | Jhamieka S. Greenwood | 2061377                                     |
|                              | 02/09/2019    |                  |                | 02/12/2019 16:09   | Jhamieka S. Greenwood | 2061382                                     |
|                              | 02/09/2019    |                  |                | 02/12/2019 16:14   | Jhamieka S. Greenwood | 2061383, 2061386                            |
|                              | 02/11/2019    | 02/13/2019 11:45 | Fe-Val Siddell | 02/14/2019 18:18   | Vandana T. Nagar      | 2061579                                     |
| EPA 8270D                    | 02/11/2019    | 02/13/2019 11:45 | Fe-Val Siddell | 02/20/2019 19:47   | Vandana T. Nagar      | 2061579                                     |
|                              | 02/11/2019    | 02/14/2019 08:00 | Fe-Val Siddell | 02/19/2019 23:36   | Dinesh Mishra         | 2061578                                     |
|                              | 02/11/2019    | 02/14/2019 08:00 | Fe-Val Siddell | 02/19/2019 03:08   | Arthur Maknenko       | 2061578                                     |
| EPA 8276                     | 02/11/2019    | 02/14/2019 08:00 | Fe-Val Siddell | 02/21/2019 04:15   | Arthur Maknenko       | 2061578                                     |
|                              | 02/09/2019    | 02/12/2019 12:00 | Hoor Shaik     | 02/20/2019 05:31   | Juyoung Kim           | 2061399                                     |
| EPA 8321B                    | 02/09/2019    | 02/13/2019 14:30 | Rebecca Ware   | 02/13/2019 19:03   | Mohammad Ghaffari     | 2061399                                     |
|                              | 02/09/2019    | 02/13/2019 14:30 | Rebecca Ware   | 02/14/2019 12:15   | Mohammad Ghaffari     | 2061399                                     |
|                              | 02/09/2019    | 02/13/2019 14:30 | Rebecca Ware   | 02/16/2019 06:14   | Mohammad Ghaffari     | 2061399                                     |
|                              | 02/11/2019    | 02/12/2019 12:00 | Hoor Shaik     | 02/20/2019 06:05   | Juyoung Kim           | 2061581                                     |
|                              | 02/11/2019    | 02/13/2019 14:30 | Rebecca Ware   | 02/13/2019 19:16   | Mohammad Ghaffari     | 2061581                                     |
|                              | 02/11/2019    | 02/13/2019 14:30 | Rebecca Ware   | 02/14/2019 12:26   | Mohammad Ghaffari     | 2061581                                     |
|                              | 02/11/2019    | 02/13/2019 14:30 | Rebecca Ware   | 02/16/2019 13:29   | Mohammad Ghaffari     | 2061581                                     |
|                              | 02/09/2019    |                  |                | 02/12/2019 16:03   | Chelsea Hernandez     | 2061375, 2061384                            |
| SM 2120 B                    | 02/09/2019    |                  |                | 02/16/2019 11:26   | Dale L. Simmons       | 2061372                                     |
| SM 2320 B-97                 | 02/09/2019    |                  |                | 02/16/2019 11:38   | Dale L. Simmons       | 2061375                                     |
|                              | 02/09/2019    |                  |                | 02/16/2019 11:51   | Dale L. Simmons       | 2061378                                     |
|                              | 02/09/2019    |                  |                | 02/16/2019 12:03   | Dale L. Simmons       | 2061379                                     |
|                              | 02/09/2019    |                  |                | 02/16/2019 12:16   | Dale L. Simmons       | 2061384                                     |
|                              | 02/09/2019    |                  |                | 02/13/2019 15:22   | Yijie Li              | 2061384                                     |
| SM 2540 C-97                 | 02/09/2019    |                  |                | 02/13/2019 15:22   | Yijie Li              | 2061372, 2061375, 2061378, 2061379, 2061384 |
| SM 2540 D-97                 | 02/09/2019    |                  |                |                    |                       |                                             |
| SM 4500 F-C-97               | 02/09/2019    |                  |                | 02/16/2019 11:26   | Dale L. Simmons       | 2061372                                     |
|                              | 02/09/2019    |                  |                | 02/16/2019 11:38   | Dale L. Simmons       | 2061375                                     |
|                              | 02/09/2019    |                  |                | 02/16/2019 11:51   | Dale L. Simmons       | 2061378                                     |
|                              | 02/09/2019    |                  |                | 02/16/2019 12:03   | Dale L. Simmons       | 2061379                                     |
|                              | 02/09/2019    |                  |                | 02/16/2019 12:16   | Dale L. Simmons       | 2061384                                     |
| SM 5310 B-00                 | 02/09/2019    |                  |                | 02/24/2019 09:15   | Julia Storbeck        | 2061373                                     |
|                              | 02/09/2019    |                  |                | 02/24/2019 09:29   | Julia Storbeck        | 2061376                                     |
|                              | 02/09/2019    |                  |                | 02/24/2019 09:44   | Julia Storbeck        | 2061380                                     |
|                              | 02/09/2019    |                  |                | 02/24/2019 10:00   | Julia Storbeck        | 2061381                                     |
|                              | 02/09/2019    |                  |                | 02/24/2019 10:13   | Julia Storbeck        | 2061385                                     |