

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

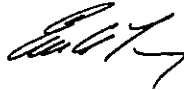
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

TestAmerica Job ID: 500-108138-1  
Client Project/Site: Waukegan Station Ash Ponds

For:  
KPRG and Associates, Inc.  
14665 West Lisbon Road,  
Suite 2B  
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:  
3/18/2016 9:16:21 AM

Eric Lang, Manager of Project Management  
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### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

**Job ID: 500-108138-1**

**Laboratory: TestAmerica Chicago**

**Narrative**

**Job Narrative  
500-108138-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/1/2016 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were -0.8° C, 1.4° C, 2.0° C, 2.8° C and 3.2° C.

**GC/MS VOA**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Field Service / Mobile Lab**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Client Sample ID: ELUC MW-12

## Lab Sample ID: 500-108138-1

| Analyte                   | Result | Qualifier | RL     | MDL | Unit | Dil | Fac | D | Method          | Prep Type |
|---------------------------|--------|-----------|--------|-----|------|-----|-----|---|-----------------|-----------|
| Arsenic                   | 0.0046 |           | 0.0010 |     | mg/L | 1   |     | 1 | 6020A           | Dissolved |
| Barium                    | 0.11   |           | 0.0025 |     | mg/L | 1   |     | 1 | 6020A           | Dissolved |
| Boron                     | 8.4    |           | 5.0    |     | mg/L | 100 |     | 1 | 6020A           | Dissolved |
| Cobalt                    | 0.0050 |           | 0.0010 |     | mg/L | 1   |     | 1 | 6020A           | Dissolved |
| Iron                      | 2.2    |           | 0.10   |     | mg/L | 1   |     | 1 | 6020A           | Dissolved |
| Manganese                 | 0.29   |           | 0.0025 |     | mg/L | 1   |     | 1 | 6020A           | Dissolved |
| Nickel                    | 0.0075 |           | 0.0020 |     | mg/L | 1   |     | 1 | 6020A           | Dissolved |
| Zinc                      | 0.051  |           | 0.020  |     | mg/L | 1   |     | 1 | 6020A           | Dissolved |
| Sulfate                   | 180    |           | 50     |     | mg/L | 10  |     | 1 | 9038            | Dissolved |
| Chloride                  | 60     |           | 2.0    |     | mg/L | 1   |     | 1 | 9251            | Dissolved |
| Nitrogen, Nitrate         | 0.20   |           | 0.10   |     | mg/L | 1   |     | 1 | Nitrate by calc | Dissolved |
| Total Dissolved Solids    | 720    |           | 10     |     | mg/L | 1   |     | 1 | SM 2540C        | Dissolved |
| Fluoride                  | 0.14   |           | 0.10   |     | mg/L | 1   |     | 1 | SM 4500 F C     | Dissolved |
| Nitrogen, Nitrate Nitrite | 0.20   |           | 0.10   |     | mg/L | 1   |     | 1 | SM 4500 NO3 F   | Dissolved |

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## Client Sample ID: ELUC MW-15

## Lab Sample ID: 500-108138-2

| Analyte                | Result | Qualifier | RL     | MDL | Unit | Dil | Fac | D | Method      | Prep Type |
|------------------------|--------|-----------|--------|-----|------|-----|-----|---|-------------|-----------|
| Arsenic                | 0.0074 |           | 0.0010 |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Barium                 | 0.11   |           | 0.0025 |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Boron                  | 12     |           | 5.0    |     | mg/L | 100 |     | 1 | 6020A       | Dissolved |
| Cobalt                 | 0.0019 |           | 0.0010 |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Iron                   | 17     |           | 0.10   |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Manganese              | 0.56   |           | 0.0025 |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Nickel                 | 0.0031 |           | 0.0020 |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Sulfate                | 400    |           | 100    |     | mg/L | 20  |     | 1 | 9038        | Dissolved |
| Chloride               | 55     |           | 2.0    |     | mg/L | 1   |     | 1 | 9251        | Dissolved |
| Total Dissolved Solids | 1100   |           | 10     |     | mg/L | 1   |     | 1 | SM 2540C    | Dissolved |
| Fluoride               | 0.23   |           | 0.10   |     | mg/L | 1   |     | 1 | SM 4500 F C | Dissolved |

## Client Sample ID: ELUC MW-10

## Lab Sample ID: 500-108138-3

| Analyte                | Result  | Qualifier | RL      | MDL | Unit | Dil | Fac | D | Method      | Prep Type |
|------------------------|---------|-----------|---------|-----|------|-----|-----|---|-------------|-----------|
| Toluene                | 0.00055 |           | 0.00050 |     | mg/L | 1   |     | 1 | 8260B       | Total/NA  |
| Arsenic                | 0.58    |           | 0.0010  |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Barium                 | 0.069   |           | 0.0025  |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Boron                  | 1.9     |           | 0.50    |     | mg/L | 10  |     | 1 | 6020A       | Dissolved |
| Cobalt                 | 0.0010  |           | 0.0010  |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Iron                   | 14      |           | 0.10    |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Manganese              | 0.28    |           | 0.0025  |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Nickel                 | 0.0021  |           | 0.0020  |     | mg/L | 1   |     | 1 | 6020A       | Dissolved |
| Sulfate                | 140     |           | 50      |     | mg/L | 10  |     | 1 | 9038        | Dissolved |
| Chloride               | 120     |           | 10      |     | mg/L | 5   |     | 1 | 9251        | Dissolved |
| Total Dissolved Solids | 940     |           | 10      |     | mg/L | 1   |     | 1 | SM 2540C    | Dissolved |
| Fluoride               | 0.13    |           | 0.10    |     | mg/L | 1   |     | 1 | SM 4500 F C | Dissolved |

## Client Sample ID: ELUC MW-11

## Lab Sample ID: 500-108138-4

| Analyte | Result | Qualifier | RL     | MDL | Unit | Dil | Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|-----|------|-----|-----|---|--------|-----------|
| Arsenic | 0.55   |           | 0.0010 |     | mg/L | 1   |     | 1 | 6020A  | Dissolved |

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Client Sample ID: ELUC MW-11 (Continued)

## Lab Sample ID: 500-108138-4

| Analyte                | Result | Qualifier | RL     | MDL | Unit | Dil | Fac | D | Method      | Prep Type |
|------------------------|--------|-----------|--------|-----|------|-----|-----|---|-------------|-----------|
| Barium                 | 0.040  |           | 0.0025 |     | mg/L | 1   |     |   | 6020A       | Dissolved |
| Boron                  | 3.8    |           | 0.50   |     | mg/L | 10  |     |   | 6020A       | Dissolved |
| Iron                   | 3.6    |           | 0.10   |     | mg/L | 1   |     |   | 6020A       | Dissolved |
| Manganese              | 0.29   |           | 0.0025 |     | mg/L | 1   |     |   | 6020A       | Dissolved |
| Sulfate                | 180    |           | 50     |     | mg/L | 10  |     |   | 9038        | Dissolved |
| Chloride               | 230    |           | 10     |     | mg/L | 5   |     |   | 9251        | Dissolved |
| Total Dissolved Solids | 1100   |           | 10     |     | mg/L | 1   |     |   | SM 2540C    | Dissolved |
| Fluoride               | 0.13   |           | 0.10   |     | mg/L | 1   |     |   | SM 4500 F C | Dissolved |

## Client Sample ID: ELUC MW-14

## Lab Sample ID: 500-108138-5

| Analyte                | Result | Qualifier | RL     | MDL | Unit | Dil | Fac | D | Method        | Prep Type |
|------------------------|--------|-----------|--------|-----|------|-----|-----|---|---------------|-----------|
| Arsenic                | 0.061  |           | 0.0010 |     | mg/L | 1   |     |   | 6020A         | Dissolved |
| Barium                 | 0.041  |           | 0.0025 |     | mg/L | 1   |     |   | 6020A         | Dissolved |
| Boron                  | 0.93   |           | 0.50   |     | mg/L | 10  |     |   | 6020A         | Dissolved |
| Chromium               | 0.011  |           | 0.0050 |     | mg/L | 1   |     |   | 6020A         | Dissolved |
| Cobalt                 | 0.0014 |           | 0.0010 |     | mg/L | 1   |     |   | 6020A         | Dissolved |
| Iron                   | 0.28   |           | 0.10   |     | mg/L | 1   |     |   | 6020A         | Dissolved |
| Manganese              | 0.17   |           | 0.0025 |     | mg/L | 1   |     |   | 6020A         | Dissolved |
| Nickel                 | 0.0022 |           | 0.0020 |     | mg/L | 1   |     |   | 6020A         | Dissolved |
| Sulfate                | 150    |           | 50     |     | mg/L | 10  |     |   | 9038          | Dissolved |
| Chloride               | 140    |           | 10     |     | mg/L | 5   |     |   | 9251          | Dissolved |
| Total Dissolved Solids | 890    |           | 10     |     | mg/L | 1   |     |   | SM 2540C      | Dissolved |
| Fluoride               | 0.18   |           | 0.10   |     | mg/L | 1   |     |   | SM 4500 F C   | Dissolved |
| Nitrogen, Nitrite      | 0.022  |           | 0.020  |     | mg/L | 1   |     |   | SM 4500 NO2 B | Dissolved |

## Client Sample ID: Trip Blank

## Lab Sample ID: 500-108138-6

No Detections.

This Detection Summary does not include radiochemical test results.

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## Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

| Method          | Method Description                 | Protocol | Laboratory |
|-----------------|------------------------------------|----------|------------|
| 8260B           | Volatile Organic Compounds (GC/MS) | SW846    | TAL CHI    |
| 314.0           | Perchlorate (IC)                   | EPA      | TAL SAC    |
| 6020A           | Metals (ICP/MS)                    | SW846    | TAL CHI    |
| 7470A           | Mercury (CVAA)                     | SW846    | TAL CHI    |
| 9014            | Cyanide                            | SW846    | TAL CHI    |
| 9038            | Sulfate, Turbidimetric             | SW846    | TAL CHI    |
| 9251            | Chloride                           | SW846    | TAL CHI    |
| Nitrate by calc | Nitrogen, Nitrate-Nitrite          | SM       | TAL CHI    |
| SM 2540C        | Solids, Total Dissolved (TDS)      | SM       | TAL CHI    |
| SM 4500 F C     | Fluoride                           | SM       | TAL CHI    |
| SM 4500 NO2 B   | Nitrogen, Nitrite                  | SM       | TAL CHI    |
| SM 4500 NO3 F   | Nitrogen, Nitrate                  | SM       | TAL CHI    |

### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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TestAmerica Chicago

# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 500-108138-1  | ELUC MW-12       | Water  | 02/29/16 17:00 | 03/01/16 10:30 |
| 500-108138-2  | ELUC MW-15       | Water  | 02/29/16 13:45 | 03/01/16 10:30 |
| 500-108138-3  | ELUC MW-10       | Water  | 03/02/16 13:00 | 03/03/16 13:45 |
| 500-108138-4  | ELUC MW-11       | Water  | 03/02/16 15:35 | 03/03/16 13:45 |
| 500-108138-5  | ELUC MW-14       | Water  | 03/02/16 14:25 | 03/03/16 13:45 |
| 500-108138-6  | Trip Blank       | Water  | 02/29/16 00:00 | 03/03/16 13:45 |

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# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

**Client Sample ID: ELUC MW-12**

**Lab Sample ID: 500-108138-1**

Date Collected: 02/29/16 17:00

Matrix: Water

Date Received: 03/01/16 10:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte        | Result   | Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-----|------|---|----------|----------------|---------|
| Benzene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 11:39 | 1       |
| Toluene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 11:39 | 1       |
| Ethylbenzene   | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 11:39 | 1       |
| Xylenes, Total | <0.0010  |           | 0.0010  |     | mg/L |   |          | 03/10/16 11:39 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 75 - 125 |          | 03/10/16 11:39 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 75 - 120 |          | 03/10/16 11:39 | 1       |
| 4-Bromofluorobenzene (Surr)  | 89        |           | 75 - 120 |          | 03/10/16 11:39 | 1       |
| Dibromofluoromethane         | 101       |           | 75 - 120 |          | 03/10/16 11:39 | 1       |

**Method: 314.0 - Perchlorate (IC)**

| Analyte     | Result  | Qualifier | RL     | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|---------|-----------|--------|-----|------|---|----------|----------------|---------|
| Perchlorate | <0.0040 |           | 0.0040 |     | mg/L |   |          | 03/16/16 19:39 | 1       |

**Method: 6020A - Metals (ICP/MS) - Dissolved**

| Analyte   | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony  | <0.0030  |           | 0.0030  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Arsenic   | 0.0046   |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Barium    | 0.11     |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Beryllium | <0.0010  |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:09 | 1       |
| Boron     | 8.4      |           | 5.0     |     | mg/L |   | 03/08/16 16:33 | 03/15/16 16:30 | 100     |
| Cadmium   | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Chromium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Cobalt    | 0.0050   |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Copper    | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:09 | 1       |
| Iron      | 2.2      |           | 0.10    |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:09 | 1       |
| Lead      | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Manganese | 0.29     |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Nickel    | 0.0075   |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:09 | 1       |
| Selenium  | <0.0025  |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Silver    | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Thallium  | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |
| Vanadium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:09 | 1       |
| Zinc      | 0.051    |           | 0.020   |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:20 | 1       |

**Method: 7470A - Mercury (CVAA) - Dissolved**

| Analyte | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 |           | 0.00020 |     | mg/L |   | 03/05/16 19:15 | 03/12/16 12:26 | 1       |

**General Chemistry - Dissolved**

| Analyte                   | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Cyanide, Total            | <0.010 |           | 0.010 |     | mg/L |   | 03/11/16 16:30 | 03/11/16 19:32 | 1       |
| Sulfate                   | 180    |           | 50    |     | mg/L |   |                | 03/12/16 22:30 | 10      |
| Chloride                  | 60     |           | 2.0   |     | mg/L |   |                | 03/10/16 19:01 | 1       |
| Nitrogen, Nitrate         | 0.20   |           | 0.10  |     | mg/L |   |                | 03/14/16 15:26 | 1       |
| Total Dissolved Solids    | 720    |           | 10    |     | mg/L |   |                | 03/04/16 01:28 | 1       |
| Fluoride                  | 0.14   |           | 0.10  |     | mg/L |   |                | 03/05/16 15:07 | 1       |
| Nitrogen, Nitrite         | <0.020 |           | 0.020 |     | mg/L |   |                | 03/02/16 11:38 | 1       |
| Nitrogen, Nitrate Nitrite | 0.20   |           | 0.10  |     | mg/L |   |                | 03/13/16 23:47 | 1       |

TestAmerica Chicago



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

**Client Sample ID: ELUC MW-15**

**Lab Sample ID: 500-108138-2**

Date Collected: 02/29/16 13:45

Matrix: Water

Date Received: 03/01/16 10:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte        | Result   | Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-----|------|---|----------|----------------|---------|
| Benzene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:06 | 1       |
| Toluene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:06 | 1       |
| Ethylbenzene   | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:06 | 1       |
| Xylenes, Total | <0.0010  |           | 0.0010  |     | mg/L |   |          | 03/10/16 12:06 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 75 - 125 |          | 03/10/16 12:06 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 75 - 120 |          | 03/10/16 12:06 | 1       |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 75 - 120 |          | 03/10/16 12:06 | 1       |
| Dibromofluoromethane         | 108       |           | 75 - 120 |          | 03/10/16 12:06 | 1       |

**Method: 314.0 - Perchlorate (IC)**

| Analyte     | Result  | Qualifier | RL     | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|---------|-----------|--------|-----|------|---|----------|----------------|---------|
| Perchlorate | <0.0040 |           | 0.0040 |     | mg/L |   |          | 03/16/16 20:25 | 1       |

**Method: 6020A - Metals (ICP/MS) - Dissolved**

| Analyte   | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony  | <0.0030  |           | 0.0030  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Arsenic   | 0.0074   |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Barium    | 0.11     |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Beryllium | <0.0010  |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:14 | 1       |
| Boron     | 12       |           | 5.0     |     | mg/L |   | 03/08/16 16:33 | 03/15/16 16:35 | 100     |
| Cadmium   | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Chromium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Cobalt    | 0.0019   |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Copper    | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:21 | 1       |
| Iron      | 17       |           | 0.10    |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:21 | 1       |
| Lead      | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Manganese | 0.56     |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Nickel    | 0.0031   |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:14 | 1       |
| Selenium  | <0.0025  |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Silver    | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Thallium  | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |
| Vanadium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:21 | 1       |
| Zinc      | <0.020   |           | 0.020   |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:24 | 1       |

**Method: 7470A - Mercury (CVAA) - Dissolved**

| Analyte | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 |           | 0.00020 |     | mg/L |   | 03/05/16 19:15 | 03/12/16 12:28 | 1       |

**General Chemistry - Dissolved**

| Analyte                   | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Cyanide, Total            | <0.010 |           | 0.010 |     | mg/L |   | 03/11/16 16:30 | 03/11/16 19:32 | 1       |
| Sulfate                   | 400    |           | 100   |     | mg/L |   |                | 03/12/16 22:33 | 20      |
| Chloride                  | 55     |           | 2.0   |     | mg/L |   |                | 03/10/16 19:02 | 1       |
| Nitrogen, Nitrate         | <0.10  |           | 0.10  |     | mg/L |   |                | 03/14/16 15:26 | 1       |
| Total Dissolved Solids    | 1100   |           | 10    |     | mg/L |   |                | 03/04/16 01:31 | 1       |
| Fluoride                  | 0.23   |           | 0.10  |     | mg/L |   |                | 03/05/16 15:10 | 1       |
| Nitrogen, Nitrite         | <0.020 |           | 0.020 |     | mg/L |   |                | 03/02/16 11:39 | 1       |
| Nitrogen, Nitrate Nitrite | <0.10  |           | 0.10  |     | mg/L |   |                | 03/13/16 23:49 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

**Client Sample ID: ELUC MW-10**

**Lab Sample ID: 500-108138-3**

Date Collected: 03/02/16 13:00

Matrix: Water

Date Received: 03/03/16 13:45

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte        | Result   | Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-----|------|---|----------|----------------|---------|
| Benzene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:33 | 1       |
| Toluene        | 0.00055  |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:33 | 1       |
| Ethylbenzene   | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:33 | 1       |
| Xylenes, Total | <0.0010  |           | 0.0010  |     | mg/L |   |          | 03/10/16 12:33 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 75 - 125 |          | 03/10/16 12:33 | 1       |
| Toluene-d8 (Surr)            | 90        |           | 75 - 120 |          | 03/10/16 12:33 | 1       |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 75 - 120 |          | 03/10/16 12:33 | 1       |
| Dibromofluoromethane         | 104       |           | 75 - 120 |          | 03/10/16 12:33 | 1       |

### Method: 314.0 - Perchlorate (IC)

| Analyte     | Result  | Qualifier | RL     | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|---------|-----------|--------|-----|------|---|----------|----------------|---------|
| Perchlorate | <0.0040 |           | 0.0040 |     | mg/L |   |          | 03/16/16 20:41 | 1       |

### Method: 6020A - Metals (ICP/MS) - Dissolved

| Analyte   | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony  | <0.0030  |           | 0.0030  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Arsenic   | 0.58     |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Barium    | 0.069    |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Beryllium | <0.0010  |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:18 | 1       |
| Boron     | 1.9      |           | 0.50    |     | mg/L |   | 03/08/16 16:33 | 03/15/16 16:39 | 10      |
| Cadmium   | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Chromium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Cobalt    | 0.0010   |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Copper    | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:24 | 1       |
| Iron      | 14       |           | 0.10    |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:24 | 1       |
| Lead      | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Manganese | 0.28     |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Nickel    | 0.0021   |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:18 | 1       |
| Selenium  | <0.0025  |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Silver    | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Thallium  | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |
| Vanadium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:24 | 1       |
| Zinc      | <0.020   |           | 0.020   |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:35 | 1       |

### Method: 7470A - Mercury (CVAA) - Dissolved

| Analyte | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 |           | 0.00020 |     | mg/L |   | 03/05/16 19:15 | 03/12/16 12:30 | 1       |

### General Chemistry - Dissolved

| Analyte                   | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Cyanide, Total            | <0.010 |           | 0.010 |     | mg/L |   | 03/11/16 16:30 | 03/11/16 19:33 | 1       |
| Sulfate                   | 140    |           | 50    |     | mg/L |   |                | 03/12/16 22:34 | 10      |
| Chloride                  | 120    |           | 10    |     | mg/L |   |                | 03/10/16 20:11 | 5       |
| Nitrogen, Nitrate         | <0.10  |           | 0.10  |     | mg/L |   |                | 03/14/16 15:26 | 1       |
| Total Dissolved Solids    | 940    |           | 10    |     | mg/L |   |                | 03/04/16 01:35 | 1       |
| Fluoride                  | 0.13   |           | 0.10  |     | mg/L |   |                | 03/05/16 15:20 | 1       |
| Nitrogen, Nitrite         | <0.020 |           | 0.020 |     | mg/L |   |                | 03/03/16 17:39 | 1       |
| Nitrogen, Nitrate Nitrite | <0.10  |           | 0.10  |     | mg/L |   |                | 03/13/16 23:51 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

**Client Sample ID: ELUC MW-11**

**Lab Sample ID: 500-108138-4**

Date Collected: 03/02/16 15:35

Matrix: Water

Date Received: 03/03/16 13:45

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte        | Result   | Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-----|------|---|----------|----------------|---------|
| Benzene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:59 | 1       |
| Toluene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:59 | 1       |
| Ethylbenzene   | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 12:59 | 1       |
| Xylenes, Total | <0.0010  |           | 0.0010  |     | mg/L |   |          | 03/10/16 12:59 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 75 - 125 |          | 03/10/16 12:59 | 1       |
| Toluene-d8 (Surr)            | 92        |           | 75 - 120 |          | 03/10/16 12:59 | 1       |
| 4-Bromofluorobenzene (Surr)  | 87        |           | 75 - 120 |          | 03/10/16 12:59 | 1       |
| Dibromofluoromethane         | 105       |           | 75 - 120 |          | 03/10/16 12:59 | 1       |

**Method: 314.0 - Perchlorate (IC)**

| Analyte     | Result  | Qualifier | RL     | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|---------|-----------|--------|-----|------|---|----------|----------------|---------|
| Perchlorate | <0.0040 |           | 0.0040 |     | mg/L |   |          | 03/16/16 20:56 | 1       |

**Method: 6020A - Metals (ICP/MS) - Dissolved**

| Analyte   | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony  | <0.0030  |           | 0.0030  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Arsenic   | 0.55     |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Barium    | 0.040    |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Beryllium | <0.0010  |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:23 | 1       |
| Boron     | 3.8      |           | 0.50    |     | mg/L |   | 03/08/16 16:33 | 03/15/16 16:44 | 10      |
| Cadmium   | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Chromium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Cobalt    | <0.0010  |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Copper    | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:28 | 1       |
| Iron      | 3.6      |           | 0.10    |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:28 | 1       |
| Lead      | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Manganese | 0.29     |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Nickel    | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:23 | 1       |
| Selenium  | <0.0025  |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Silver    | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Thallium  | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |
| Vanadium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:28 | 1       |
| Zinc      | <0.020   |           | 0.020   |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:39 | 1       |

**Method: 7470A - Mercury (CVAA) - Dissolved**

| Analyte | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 |           | 0.00020 |     | mg/L |   | 03/05/16 19:15 | 03/12/16 12:32 | 1       |

**General Chemistry - Dissolved**

| Analyte                   | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Cyanide, Total            | <0.010 |           | 0.010 |     | mg/L |   | 03/11/16 16:30 | 03/11/16 19:33 | 1       |
| Sulfate                   | 180    |           | 50    |     | mg/L |   |                | 03/12/16 22:35 | 10      |
| Chloride                  | 230    |           | 10    |     | mg/L |   |                | 03/10/16 20:12 | 5       |
| Nitrogen, Nitrate         | <0.10  |           | 0.10  |     | mg/L |   |                | 03/14/16 15:26 | 1       |
| Total Dissolved Solids    | 1100   |           | 10    |     | mg/L |   |                | 03/04/16 01:38 | 1       |
| Fluoride                  | 0.13   |           | 0.10  |     | mg/L |   |                | 03/05/16 15:27 | 1       |
| Nitrogen, Nitrite         | <0.020 |           | 0.020 |     | mg/L |   |                | 03/03/16 19:14 | 1       |
| Nitrogen, Nitrate Nitrite | <0.10  |           | 0.10  |     | mg/L |   |                | 03/13/16 23:53 | 1       |

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

**Client Sample ID: ELUC MW-14**

**Lab Sample ID: 500-108138-5**

Date Collected: 03/02/16 14:25

Matrix: Water

Date Received: 03/03/16 13:45

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte        | Result   | Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-----|------|---|----------|----------------|---------|
| Benzene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 13:25 | 1       |
| Toluene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 13:25 | 1       |
| Ethylbenzene   | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 13:25 | 1       |
| Xylenes, Total | <0.0010  |           | 0.0010  |     | mg/L |   |          | 03/10/16 13:25 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96        |           | 75 - 125 |          | 03/10/16 13:25 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 75 - 120 |          | 03/10/16 13:25 | 1       |
| 4-Bromofluorobenzene (Surr)  | 89        |           | 75 - 120 |          | 03/10/16 13:25 | 1       |
| Dibromofluoromethane         | 104       |           | 75 - 120 |          | 03/10/16 13:25 | 1       |

**Method: 314.0 - Perchlorate (IC)**

| Analyte     | Result  | Qualifier | RL     | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|---------|-----------|--------|-----|------|---|----------|----------------|---------|
| Perchlorate | <0.0040 |           | 0.0040 |     | mg/L |   |          | 03/16/16 21:11 | 1       |

**Method: 6020A - Metals (ICP/MS) - Dissolved**

| Analyte   | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Antimony  | <0.0030  |           | 0.0030  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Arsenic   | 0.061    |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Barium    | 0.041    |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Beryllium | <0.0010  |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:28 | 1       |
| Boron     | 0.93     |           | 0.50    |     | mg/L |   | 03/08/16 16:33 | 03/15/16 16:58 | 10      |
| Cadmium   | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Chromium  | 0.011    |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Cobalt    | 0.0014   |           | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Copper    | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:32 | 1       |
| Iron      | 0.28     |           | 0.10    |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:32 | 1       |
| Lead      | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Manganese | 0.17     |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Nickel    | 0.0022   |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 19:28 | 1       |
| Selenium  | <0.0025  |           | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Silver    | <0.00050 |           | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Thallium  | <0.0020  |           | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |
| Vanadium  | <0.0050  |           | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/14/16 18:32 | 1       |
| Zinc      | <0.020   |           | 0.020   |     | mg/L |   | 03/08/16 16:33 | 03/09/16 22:43 | 1       |

**Method: 7470A - Mercury (CVAA) - Dissolved**

| Analyte | Result   | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Mercury | <0.00020 |           | 0.00020 |     | mg/L |   | 03/05/16 19:15 | 03/12/16 12:34 | 1       |

**General Chemistry - Dissolved**

| Analyte                   | Result | Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-------|-----|------|---|----------------|----------------|---------|
| Cyanide, Total            | <0.010 |           | 0.010 |     | mg/L |   | 03/11/16 16:30 | 03/11/16 19:34 | 1       |
| Sulfate                   | 150    |           | 50    |     | mg/L |   |                | 03/12/16 22:38 | 10      |
| Chloride                  | 140    |           | 10    |     | mg/L |   |                | 03/10/16 20:16 | 5       |
| Nitrogen, Nitrate         | <0.10  |           | 0.10  |     | mg/L |   |                | 03/14/16 15:26 | 1       |
| Total Dissolved Solids    | 890    |           | 10    |     | mg/L |   |                | 03/04/16 01:41 | 1       |
| Fluoride                  | 0.18   |           | 0.10  |     | mg/L |   |                | 03/05/16 15:39 | 1       |
| Nitrogen, Nitrite         | 0.022  |           | 0.020 |     | mg/L |   |                | 03/03/16 19:46 | 1       |
| Nitrogen, Nitrate Nitrite | <0.10  |           | 0.10  |     | mg/L |   |                | 03/13/16 23:55 | 1       |

TestAmerica Chicago

## Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

**Client Sample ID: Trip Blank**

Date Collected: 02/29/16 00:00

Date Received: 03/03/16 13:45

**Lab Sample ID: 500-108138-6**

Matrix: Water

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte        | Result   | Qualifier | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-----|------|---|----------|----------------|---------|
| Benzene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 13:52 | 1       |
| Toluene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 13:52 | 1       |
| Ethylbenzene   | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 13:52 | 1       |
| Xylenes, Total | <0.0010  |           | 0.0010  |     | mg/L |   |          | 03/10/16 13:52 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 98        |           | 75 - 125 |          | 03/10/16 13:52 | 1       |
| Toluene-d8 (Surr)            | 91        |           | 75 - 120 |          | 03/10/16 13:52 | 1       |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 75 - 120 |          | 03/10/16 13:52 | 1       |
| Dibromofluoromethane         | 107       |           | 75 - 120 |          | 03/10/16 13:52 | 1       |



## Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

### Qualifiers

#### General Chemistry

| Qualifier | Qualifier Description   |
|-----------|---|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| ■              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

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TestAmerica Chicago

## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

### GC/MS VOA

Analysis Batch: 326367

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1     | ELUC MW-12         | Total/NA  | Water  | 8260B  |            |
| 500-108138-2     | ELUC MW-15         | Total/NA  | Water  | 8260B  |            |
| 500-108138-3     | ELUC MW-10         | Total/NA  | Water  | 8260B  |            |
| 500-108138-4     | ELUC MW-11         | Total/NA  | Water  | 8260B  |            |
| 500-108138-5     | ELUC MW-14         | Total/NA  | Water  | 8260B  |            |
| 500-108138-6     | Trip Blank         | Total/NA  | Water  | 8260B  |            |
| LCS 500-326367/4 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 500-326367/6  | Method Blank       | Total/NA  | Water  | 8260B  |            |

### HPLC/IC

Analysis Batch: 103718

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1     | ELUC MW-12         | Total/NA  | Water  | 314.0  |            |
| 500-108138-1 MS  | ELUC MW-12         | Total/NA  | Water  | 314.0  |            |
| 500-108138-1 MSD | ELUC MW-12         | Total/NA  | Water  | 314.0  |            |
| 500-108138-2     | ELUC MW-15         | Total/NA  | Water  | 314.0  |            |
| 500-108138-3     | ELUC MW-10         | Total/NA  | Water  | 314.0  |            |
| 500-108138-4     | ELUC MW-11         | Total/NA  | Water  | 314.0  |            |
| 500-108138-5     | ELUC MW-14         | Total/NA  | Water  | 314.0  |            |
| LCS 320-103718/7 | Lab Control Sample | Total/NA  | Water  | 314.0  |            |
| MB 320-103718/6  | Method Blank       | Total/NA  | Water  | 314.0  |            |
| MRL 320-103718/5 | Lab Control Sample | Total/NA  | Water  | 314.0  |            |

### Metals

Prep Batch: 325747

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1        | ELUC MW-12         | Dissolved | Water  | 7470A  |            |
| 500-108138-2        | ELUC MW-15         | Dissolved | Water  | 7470A  |            |
| 500-108138-3        | ELUC MW-10         | Dissolved | Water  | 7470A  |            |
| 500-108138-4        | ELUC MW-11         | Dissolved | Water  | 7470A  |            |
| 500-108138-5        | ELUC MW-14         | Dissolved | Water  | 7470A  |            |
| LCS 500-325747/13-A | Lab Control Sample | Total/NA  | Water  | 7470A  |            |
| MB 500-325747/12-A  | Method Blank       | Total/NA  | Water  | 7470A  |            |

Prep Batch: 326114

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|--------------------|-----------|--------|----------------|------------|
| 500-108138-1       | ELUC MW-12         | Dissolved | Water  | Soluble Metals |            |
| 500-108138-2       | ELUC MW-15         | Dissolved | Water  | Soluble Metals |            |
| 500-108138-3       | ELUC MW-10         | Dissolved | Water  | Soluble Metals |            |
| 500-108138-4       | ELUC MW-11         | Dissolved | Water  | Soluble Metals |            |
| 500-108138-5       | ELUC MW-14         | Dissolved | Water  | Soluble Metals |            |
| LCS 500-326114/2-A | Lab Control Sample | Soluble   | Water  | Soluble Metals |            |
| MB 500-326114/1-A  | Method Blank       | Soluble   | Water  | Soluble Metals |            |

Analysis Batch: 326400

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 500-108138-1  | ELUC MW-12       | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-2  | ELUC MW-15       | Dissolved | Water  | 6020A  | 326114     |

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Metals (Continued)

### Analysis Batch: 326400 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-3       | ELUC MW-10         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-4       | ELUC MW-11         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-5       | ELUC MW-14         | Dissolved | Water  | 6020A  | 326114     |
| LCS 500-326114/2-A | Lab Control Sample | Soluble   | Water  | 6020A  | 326114     |
| MB 500-326114/1-A  | Method Blank       | Soluble   | Water  | 6020A  | 326114     |

### Analysis Batch: 326792

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1        | ELUC MW-12         | Dissolved | Water  | 7470A  | 325747     |
| 500-108138-2        | ELUC MW-15         | Dissolved | Water  | 7470A  | 325747     |
| 500-108138-3        | ELUC MW-10         | Dissolved | Water  | 7470A  | 325747     |
| 500-108138-4        | ELUC MW-11         | Dissolved | Water  | 7470A  | 325747     |
| 500-108138-5        | ELUC MW-14         | Dissolved | Water  | 7470A  | 325747     |
| LCS 500-325747/13-A | Lab Control Sample | Total/NA  | Water  | 7470A  | 325747     |
| MB 500-325747/12-A  | Method Blank       | Total/NA  | Water  | 7470A  | 325747     |

### Analysis Batch: 327110

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1       | ELUC MW-12         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-2       | ELUC MW-15         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-3       | ELUC MW-10         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-4       | ELUC MW-11         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-5       | ELUC MW-14         | Dissolved | Water  | 6020A  | 326114     |
| LCS 500-326114/2-A | Lab Control Sample | Soluble   | Water  | 6020A  | 326114     |
| MB 500-326114/1-A  | Method Blank       | Soluble   | Water  | 6020A  | 326114     |

### Analysis Batch: 327294

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1       | ELUC MW-12         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-1       | ELUC MW-12         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-2       | ELUC MW-15         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-2       | ELUC MW-15         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-3       | ELUC MW-10         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-3       | ELUC MW-10         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-4       | ELUC MW-11         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-4       | ELUC MW-11         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-5       | ELUC MW-14         | Dissolved | Water  | 6020A  | 326114     |
| 500-108138-5       | ELUC MW-14         | Dissolved | Water  | 6020A  | 326114     |
| LCS 500-326114/2-A | Lab Control Sample | Soluble   | Water  | 6020A  | 326114     |
| MB 500-326114/1-A  | Method Blank       | Soluble   | Water  | 6020A  | 326114     |

## General Chemistry

### Analysis Batch: 325490

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 500-108138-1     | ELUC MW-12         | Dissolved | Water  | SM 4500 NO2 B |            |
| 500-108138-2     | ELUC MW-15         | Dissolved | Water  | SM 4500 NO2 B |            |
| 500-108138-2 MS  | ELUC MW-15         | Dissolved | Water  | SM 4500 NO2 B |            |
| 500-108138-2 MSD | ELUC MW-15         | Dissolved | Water  | SM 4500 NO2 B |            |
| LCS 500-325490/4 | Lab Control Sample | Total/NA  | Water  | SM 4500 NO2 B |            |

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## General Chemistry (Continued)

### Analysis Batch: 325490 (Continued)

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method        | Prep Batch |
|-----------------|------------------|-----------|--------|---------------|------------|
| MB 500-325490/3 | Method Blank     | Total/NA  | Water  | SM 4500 NO2 B |            |

### Analysis Batch: 325491

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|------------------|--------------------|-----------|--------|---------------|------------|
| 500-108138-3     | ELUC MW-10         | Dissolved | Water  | SM 4500 NO2 B |            |
| 500-108138-4     | ELUC MW-11         | Dissolved | Water  | SM 4500 NO2 B |            |
| 500-108138-5     | ELUC MW-14         | Dissolved | Water  | SM 4500 NO2 B |            |
| LCS 500-325491/4 | Lab Control Sample | Total/NA  | Water  | SM 4500 NO2 B |            |
| MB 500-325491/3  | Method Blank       | Total/NA  | Water  | SM 4500 NO2 B |            |

### Analysis Batch: 325493

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-108138-1     | ELUC MW-12         | Dissolved | Water  | SM 2540C |            |
| 500-108138-2     | ELUC MW-15         | Dissolved | Water  | SM 2540C |            |
| 500-108138-3     | ELUC MW-10         | Dissolved | Water  | SM 2540C |            |
| 500-108138-4     | ELUC MW-11         | Dissolved | Water  | SM 2540C |            |
| 500-108138-5     | ELUC MW-14         | Dissolved | Water  | SM 2540C |            |
| LCS 500-325493/2 | Lab Control Sample | Total/NA  | Water  | SM 2540C |            |
| MB 500-325493/1  | Method Blank       | Total/NA  | Water  | SM 2540C |            |

### Analysis Batch: 325740

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 500-108138-1      | ELUC MW-12         | Dissolved | Water  | SM 4500 F C |            |
| 500-108138-2      | ELUC MW-15         | Dissolved | Water  | SM 4500 F C |            |
| 500-108138-3      | ELUC MW-10         | Dissolved | Water  | SM 4500 F C |            |
| 500-108138-3 MS   | ELUC MW-10         | Dissolved | Water  | SM 4500 F C |            |
| 500-108138-3 MSD  | ELUC MW-10         | Dissolved | Water  | SM 4500 F C |            |
| 500-108138-4      | ELUC MW-11         | Dissolved | Water  | SM 4500 F C |            |
| 500-108138-5      | ELUC MW-14         | Dissolved | Water  | SM 4500 F C |            |
| LCS 500-325740/32 | Lab Control Sample | Total/NA  | Water  | SM 4500 F C |            |
| LCS 500-325740/4  | Lab Control Sample | Total/NA  | Water  | SM 4500 F C |            |
| MB 500-325740/3   | Method Blank       | Total/NA  | Water  | SM 4500 F C |            |
| MB 500-325740/31  | Method Blank       | Total/NA  | Water  | SM 4500 F C |            |

### Analysis Batch: 326673

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1     | ELUC MW-12         | Dissolved | Water  | 9251   |            |
| 500-108138-2     | ELUC MW-15         | Dissolved | Water  | 9251   |            |
| 500-108138-3     | ELUC MW-10         | Dissolved | Water  | 9251   |            |
| 500-108138-4     | ELUC MW-11         | Dissolved | Water  | 9251   |            |
| 500-108138-4 MS  | ELUC MW-11         | Dissolved | Water  | 9251   |            |
| 500-108138-4 MSD | ELUC MW-11         | Dissolved | Water  | 9251   |            |
| 500-108138-5     | ELUC MW-14         | Dissolved | Water  | 9251   |            |
| LCS 500-326673/5 | Lab Control Sample | Total/NA  | Water  | 9251   |            |
| MB 500-326673/4  | Method Blank       | Total/NA  | Water  | 9251   |            |

### Prep Batch: 326681

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 500-108138-1  | ELUC MW-12       | Dissolved | Water  | 9010B  |            |
| 500-108138-2  | ELUC MW-15       | Dissolved | Water  | 9010B  |            |
| 500-108138-3  | ELUC MW-10       | Dissolved | Water  | 9010B  |            |

TestAmerica Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## General Chemistry (Continued)

### Prep Batch: 326681 (Continued)

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-4       | ELUC MW-11         | Dissolved | Water  | 9010B  |            |
| 500-108138-5       | ELUC MW-14         | Dissolved | Water  | 9010B  |            |
| 500-108138-5 MS    | ELUC MW-14         | Dissolved | Water  | 9010B  |            |
| 500-108138-5 MSD   | ELUC MW-14         | Dissolved | Water  | 9010B  |            |
| LCS 500-326681/2-A | Lab Control Sample | Total/NA  | Water  | 9010B  |            |
| MB 500-326681/1-A  | Method Blank       | Total/NA  | Water  | 9010B  |            |

### Analysis Batch: 326789

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1       | ELUC MW-12         | Dissolved | Water  | 9014   | 326681     |
| 500-108138-2       | ELUC MW-15         | Dissolved | Water  | 9014   | 326681     |
| 500-108138-3       | ELUC MW-10         | Dissolved | Water  | 9014   | 326681     |
| 500-108138-4       | ELUC MW-11         | Dissolved | Water  | 9014   | 326681     |
| 500-108138-5       | ELUC MW-14         | Dissolved | Water  | 9014   | 326681     |
| 500-108138-5 MS    | ELUC MW-14         | Dissolved | Water  | 9014   | 326681     |
| 500-108138-5 MSD   | ELUC MW-14         | Dissolved | Water  | 9014   | 326681     |
| LCS 500-326681/2-A | Lab Control Sample | Total/NA  | Water  | 9014   | 326681     |
| MB 500-326681/1-A  | Method Blank       | Total/NA  | Water  | 9014   | 326681     |

### Analysis Batch: 326940

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-108138-1     | ELUC MW-12         | Dissolved | Water  | 9038   |            |
| 500-108138-1 MS  | ELUC MW-12         | Dissolved | Water  | 9038   |            |
| 500-108138-1 MSD | ELUC MW-12         | Dissolved | Water  | 9038   |            |
| 500-108138-2     | ELUC MW-15         | Dissolved | Water  | 9038   |            |
| 500-108138-3     | ELUC MW-10         | Dissolved | Water  | 9038   |            |
| 500-108138-4     | ELUC MW-11         | Dissolved | Water  | 9038   |            |
| 500-108138-5     | ELUC MW-14         | Dissolved | Water  | 9038   |            |
| 500-108138-5 MS  | ELUC MW-14         | Dissolved | Water  | 9038   |            |
| 500-108138-5 MSD | ELUC MW-14         | Dissolved | Water  | 9038   |            |
| LCS 500-326940/4 | Lab Control Sample | Total/NA  | Water  | 9038   |            |
| MB 500-326940/3  | Method Blank       | Total/NA  | Water  | 9038   |            |

### Analysis Batch: 327011

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method        | Prep Batch |
|-------------------|--------------------|-----------|--------|---------------|------------|
| 500-108138-1      | ELUC MW-12         | Dissolved | Water  | SM 4500 NO3 F |            |
| 500-108138-2      | ELUC MW-15         | Dissolved | Water  | SM 4500 NO3 F |            |
| 500-108138-3      | ELUC MW-10         | Dissolved | Water  | SM 4500 NO3 F |            |
| 500-108138-4      | ELUC MW-11         | Dissolved | Water  | SM 4500 NO3 F |            |
| 500-108138-5      | ELUC MW-14         | Dissolved | Water  | SM 4500 NO3 F |            |
| LCS 500-327011/13 | Lab Control Sample | Total/NA  | Water  | SM 4500 NO3 F |            |
| MB 500-327011/12  | Method Blank       | Total/NA  | Water  | SM 4500 NO3 F |            |

### Analysis Batch: 327017

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method          | Prep Batch |
|---------------|------------------|-----------|--------|-----------------|------------|
| 500-108138-1  | ELUC MW-12       | Dissolved | Water  | Nitrate by calc |            |
| 500-108138-2  | ELUC MW-15       | Dissolved | Water  | Nitrate by calc |            |
| 500-108138-3  | ELUC MW-10       | Dissolved | Water  | Nitrate by calc |            |
| 500-108138-4  | ELUC MW-11       | Dissolved | Water  | Nitrate by calc |            |
| 500-108138-5  | ELUC MW-14       | Dissolved | Water  | Nitrate by calc |            |

TestAmerica Chicago

# Surrogate Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID   | 12DCE    | TOL      | BFB      | DBFM     |
|------------------|--------------------|----------|----------|----------|----------|
|                  |                    | (75-125) | (75-120) | (75-120) | (75-120) |
| 500-108138-1     | ELUC MW-12         | 98       | 92       | 89       | 101      |
| 500-108138-2     | ELUC MW-15         | 100      | 92       | 88       | 108      |
| 500-108138-3     | ELUC MW-10         | 97       | 90       | 88       | 104      |
| 500-108138-4     | ELUC MW-11         | 97       | 92       | 87       | 105      |
| 500-108138-5     | ELUC MW-14         | 96       | 93       | 89       | 104      |
| 500-108138-6     | Trip Blank         | 98       | 91       | 88       | 107      |
| LCS 500-326367/4 | Lab Control Sample | 97       | 91       | 91       | 107      |
| MB 500-326367/6  | Method Blank       | 99       | 89       | 88       | 106      |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-326367/6  
 Matrix: Water  
 Analysis Batch: 326367

Client Sample ID: Method Blank  
 Prep Type: Total/NA

| Analyte        | MB MB    |           | RL      | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------------|----------|-----------|---------|-----|------|---|----------|----------------|---------|
|                | Result   | Qualifier |         |     |      |   |          |                |         |
| Benzene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 10:19 | 1       |
| Toluene        | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 10:19 | 1       |
| Ethylbenzene   | <0.00050 |           | 0.00050 |     | mg/L |   |          | 03/10/16 10:19 | 1       |
| Xylenes, Total | <0.0010  |           | 0.0010  |     | mg/L |   |          | 03/10/16 10:19 | 1       |

| Surrogate                    | MB MB     |           | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 75 - 125 |          | 03/10/16 10:19 | 1       |
| Toluene-d8 (Surr)            | 89        |           | 75 - 120 |          | 03/10/16 10:19 | 1       |
| 4-Bromofluorobenzene (Surr)  | 88        |           | 75 - 120 |          | 03/10/16 10:19 | 1       |
| Dibromofluoromethane         | 106       |           | 75 - 120 |          | 03/10/16 10:19 | 1       |

Lab Sample ID: LCS 500-326367/4  
 Matrix: Water  
 Analysis Batch: 326367

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

| Analyte        | Spike Added | LCS LCS |           | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|---------|-----------|------|---|------|--------------|
|                |             | Result  | Qualifier |      |   |      |              |
| Benzene        | 0.0500      | 0.0515  |           | mg/L |   | 103  | 70 - 120     |
| Toluene        | 0.0500      | 0.0455  |           | mg/L |   | 91   | 70 - 120     |
| Ethylbenzene   | 0.0500      | 0.0513  |           | mg/L |   | 103  | 70 - 125     |
| Xylenes, Total | 0.100       | 0.0950  |           | mg/L |   | 95   | 70 - 120     |

| Surrogate                    | LCS LCS   |           | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 75 - 125 |
| Toluene-d8 (Surr)            | 91        |           | 75 - 120 |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 75 - 120 |
| Dibromofluoromethane         | 107       |           | 75 - 120 |

## Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-103718/6  
 Matrix: Water  
 Analysis Batch: 103718

Client Sample ID: Method Blank  
 Prep Type: Total/NA

| Analyte     | MB MB   |           | RL     | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|---------|-----------|--------|-----|------|---|----------|----------------|---------|
|             | Result  | Qualifier |        |     |      |   |          |                |         |
| Perchlorate | <0.0040 |           | 0.0040 |     | mg/L |   |          | 03/16/16 13:44 | 1       |

Lab Sample ID: LCS 320-103718/7  
 Matrix: Water  
 Analysis Batch: 103718

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

| Analyte     | Spike Added | LCS LCS |           | Unit | D | %Rec | %Rec. Limits |
|-------------|-------------|---------|-----------|------|---|------|--------------|
|             |             | Result  | Qualifier |      |   |      |              |
| Perchlorate | 0.0500      | 0.0499  |           | mg/L |   | 100  | 85 - 115     |

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 320-103718/5  
Matrix: Water  
Analysis Batch: 103718

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte     | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|-------------|------------|---------------|------|---|------|--------------|
| Perchlorate | 4.00        | <4.0       |               | ug/L |   | 93   | 75 - 125     |

Lab Sample ID: 500-108138-1 MS  
Matrix: Water  
Analysis Batch: 103718

Client Sample ID: ELUC MW-12  
Prep Type: Total/NA

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Perchlorate | <0.0040       |                  | 0.0500      | 0.0429    |              | mg/L |   | 86   | 80 - 120     |

Lab Sample ID: 500-108138-1 MSD  
Matrix: Water  
Analysis Batch: 103718

Client Sample ID: ELUC MW-12  
Prep Type: Total/NA

| Analyte     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Perchlorate | <0.0040       |                  | 0.0500      | 0.0452     |               | mg/L |   | 90   | 80 - 120     | 5   | 20        |

## Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-326114/1-A  
Matrix: Water  
Analysis Batch: 326400

Client Sample ID: Method Blank  
Prep Type: Soluble  
Prep Batch: 326114

| Analyte   | MB Result | MB Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|-----------|--------------|---------|-----|------|---|----------------|----------------|---------|
| Antimony  | <0.0030   |              | 0.0030  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Arsenic   | <0.0010   |              | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Barium    | <0.0025   |              | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Cadmium   | <0.00050  |              | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Chromium  | <0.0050   |              | 0.0050  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Cobalt    | <0.0010   |              | 0.0010  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Lead      | <0.00050  |              | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Manganese | <0.0025   |              | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Selenium  | <0.0025   |              | 0.0025  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Silver    | <0.00050  |              | 0.00050 |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Thallium  | <0.0020   |              | 0.0020  |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |
| Zinc      | <0.020    |              | 0.020   |     | mg/L |   | 03/08/16 16:33 | 03/09/16 21:09 | 1       |

Lab Sample ID: MB 500-326114/1-A  
Matrix: Water  
Analysis Batch: 327110

Client Sample ID: Method Blank  
Prep Type: Soluble  
Prep Batch: 326114

| Analyte  | MB Result | MB Qualifier | RL     | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|--------|-----|------|---|----------------|----------------|---------|
| Copper   | <0.0020   |              | 0.0020 |     | mg/L |   | 03/08/16 16:33 | 03/14/16 16:58 | 1       |
| Iron     | <0.10     |              | 0.10   |     | mg/L |   | 03/08/16 16:33 | 03/14/16 16:58 | 1       |
| Vanadium | <0.0050   |              | 0.0050 |     | mg/L |   | 03/08/16 16:33 | 03/14/16 16:58 | 1       |

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-326114/1-A  
Matrix: Water  
Analysis Batch: 327294

Client Sample ID: Method Blank  
Prep Type: Soluble  
Prep Batch: 326114

| Analyte   | MB MB   |           | RL     | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------|---------|-----------|--------|-----|------|---|----------------|----------------|---------|
|           | Result  | Qualifier |        |     |      |   |                |                |         |
| Beryllium | <0.0010 |           | 0.0010 |     | mg/L |   | 03/08/16 16:33 | 03/15/16 15:06 | 1       |
| Boron     | <0.050  |           | 0.050  |     | mg/L |   | 03/08/16 16:33 | 03/15/16 15:06 | 1       |
| Nickel    | <0.0020 |           | 0.0020 |     | mg/L |   | 03/08/16 16:33 | 03/15/16 15:06 | 1       |

Lab Sample ID: LCS 500-326114/2-A  
Matrix: Water  
Analysis Batch: 326400

Client Sample ID: Lab Control Sample  
Prep Type: Soluble  
Prep Batch: 326114

| Analyte   | Spike Added | LCS LCS |           | Unit | D | %Rec | Limits   |
|-----------|-------------|---------|-----------|------|---|------|----------|
|           |             | Result  | Qualifier |      |   |      |          |
| Antimony  | 0.500       | 0.569   |           | mg/L |   | 114  | 80 - 120 |
| Arsenic   | 0.100       | 0.113   |           | mg/L |   | 113  | 80 - 120 |
| Barium    | 0.500       | 0.586   |           | mg/L |   | 117  | 80 - 120 |
| Cadmium   | 0.0500      | 0.0574  |           | mg/L |   | 115  | 80 - 120 |
| Chromium  | 0.200       | 0.230   |           | mg/L |   | 115  | 80 - 120 |
| Cobalt    | 0.500       | 0.585   |           | mg/L |   | 117  | 80 - 120 |
| Lead      | 0.100       | 0.115   |           | mg/L |   | 115  | 80 - 120 |
| Manganese | 0.500       | 0.582   |           | mg/L |   | 116  | 80 - 120 |
| Selenium  | 0.100       | 0.113   |           | mg/L |   | 113  | 80 - 120 |
| Silver    | 0.0500      | 0.0514  |           | mg/L |   | 103  | 80 - 120 |
| Thallium  | 0.100       | 0.115   |           | mg/L |   | 115  | 80 - 120 |
| Zinc      | 0.500       | 0.579   |           | mg/L |   | 116  | 80 - 120 |

Lab Sample ID: LCS 500-326114/2-A  
Matrix: Water  
Analysis Batch: 327110

Client Sample ID: Lab Control Sample  
Prep Type: Soluble  
Prep Batch: 326114

| Analyte  | Spike Added | LCS LCS |           | Unit | D | %Rec | Limits   |
|----------|-------------|---------|-----------|------|---|------|----------|
|          |             | Result  | Qualifier |      |   |      |          |
| Copper   | 0.250       | 0.247   |           | mg/L |   | 99   | 80 - 120 |
| Iron     | 1.00        | 1.18    |           | mg/L |   | 118  | 80 - 120 |
| Vanadium | 0.500       | 0.518   |           | mg/L |   | 104  | 80 - 120 |

Lab Sample ID: LCS 500-326114/2-A  
Matrix: Water  
Analysis Batch: 327294

Client Sample ID: Lab Control Sample  
Prep Type: Soluble  
Prep Batch: 326114

| Analyte   | Spike Added | LCS LCS |           | Unit | D | %Rec | Limits   |
|-----------|-------------|---------|-----------|------|---|------|----------|
|           |             | Result  | Qualifier |      |   |      |          |
| Beryllium | 0.0500      | 0.0505  |           | mg/L |   | 101  | 80 - 120 |
| Boron     | 1.00        | 1.03    |           | mg/L |   | 103  | 80 - 120 |
| Nickel    | 0.500       | 0.524   |           | mg/L |   | 105  | 80 - 120 |

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-325747/12-A  
Matrix: Water  
Analysis Batch: 326792

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 325747

| Analyte | MB MB    |           | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
|         | Result   | Qualifier |         |     |      |   |                |                |         |
| Mercury | <0.00020 |           | 0.00020 |     | mg/L |   | 03/05/16 19:15 | 03/12/16 11:52 | 1       |

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-325747/13-A  
Matrix: Water  
Analysis Batch: 326792

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 325747  
%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|---------|-------------|------------|---------------|------|---|------|----------|
| Mercury | 0.00200     | 0.00189    |               | mg/L |   | 95   | 80 - 120 |

## Method: 9014 - Cyanide

Lab Sample ID: MB 500-326681/1-A  
Matrix: Water  
Analysis Batch: 326789

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 326681

| Analyte        | MB Result | MB Qualifier | RL    | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|-----|------|---|----------------|----------------|---------|
| Cyanide, Total | <0.010    |              | 0.010 |     | mg/L |   | 03/11/16 16:30 | 03/11/16 19:25 | 1       |

Lab Sample ID: LCS 500-326681/2-A  
Matrix: Water  
Analysis Batch: 326789

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 326681  
%Rec.

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|----------------|-------------|------------|---------------|------|---|------|----------|
| Cyanide, Total | 0.100       | 0.105      |               | mg/L |   | 105  | 80 - 120 |

Lab Sample ID: 500-108138-5 MS  
Matrix: Water  
Analysis Batch: 326789

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 326681  
%Rec.

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits   |
|----------------|---------------|------------------|-------------|-----------|--------------|------|---|------|----------|
| Cyanide, Total | <0.010        |                  | 0.0400      | 0.0417    |              | mg/L |   | 104  | 75 - 125 |

Lab Sample ID: 500-108138-5 MSD  
Matrix: Water  
Analysis Batch: 326789

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 326681  
%Rec.

| Analyte        | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
|----------------|---------------|------------------|-------------|------------|---------------|------|---|------|----------|-----|-------|
| Cyanide, Total | <0.010        |                  | 0.0400      | 0.0380     |               | mg/L |   | 95   | 75 - 125 | 9   | 20    |

## Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-326940/3  
Matrix: Water  
Analysis Batch: 326940

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| Sulfate | <5.0      |              | 5.0 |     | mg/L |   |          | 03/12/16 22:26 | 1       |

Lab Sample ID: LCS 500-326940/4  
Matrix: Water  
Analysis Batch: 326940

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|---------|-------------|------------|---------------|------|---|------|----------|
| Sulfate | 20.0        | 19.8       |               | mg/L |   | 99   | 80 - 120 |

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: 500-108138-1 MS  
 Matrix: Water  
 Analysis Batch: 326940

Client Sample ID: ELUC MW-12  
 Prep Type: Dissolved

| Analyte | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec.    |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|
|         | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |
| Sulfate | 180    |           | 400   | 568    |           | mg/L |   | 97   | 75 - 125 |

Lab Sample ID: 500-108138-1 MSD  
 Matrix: Water  
 Analysis Batch: 326940

Client Sample ID: ELUC MW-12  
 Prep Type: Dissolved

| Analyte | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec.    | RPD | Limit |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|         | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   | RPD | Limit |
| Sulfate | 180    |           | 400   | 584    |           | mg/L |   | 101  | 75 - 125 | 3   | 20    |

Lab Sample ID: 500-108138-5 MS  
 Matrix: Water  
 Analysis Batch: 326940

Client Sample ID: ELUC MW-14  
 Prep Type: Dissolved

| Analyte | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec.    |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|
|         | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |
| Sulfate | 150    |           | 400   | 561    |           | mg/L |   | 102  | 75 - 125 |

Lab Sample ID: 500-108138-5 MSD  
 Matrix: Water  
 Analysis Batch: 326940

Client Sample ID: ELUC MW-14  
 Prep Type: Dissolved

| Analyte | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec.    | RPD | Limit |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|         | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   | RPD | Limit |
| Sulfate | 150    |           | 400   | 582    |           | mg/L |   | 107  | 75 - 125 | 4   | 20    |

## Method: 9251 - Chloride

Lab Sample ID: MB 500-326673/4  
 Matrix: Water  
 Analysis Batch: 326673

Client Sample ID: Method Blank  
 Prep Type: Total/NA

| Analyte  | MB     | MB        | RL  | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
|          | Result | Qualifier |     |     |      |   |          |                |         |
| Chloride | <2.0   |           | 2.0 |     | mg/L |   |          | 03/10/16 18:57 | 1       |

Lab Sample ID: LCS 500-326673/5  
 Matrix: Water  
 Analysis Batch: 326673

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec.    |
|----------|-------------|------------|---------------|------|---|------|----------|
|          |             |            |               |      |   |      | Limits   |
| Chloride | 50.0        | 51.0       |               | mg/L |   | 102  | 80 - 120 |

Lab Sample ID: 500-108138-4 MS  
 Matrix: Water  
 Analysis Batch: 326673

Client Sample ID: ELUC MW-11  
 Prep Type: Dissolved

| Analyte  | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec.    |
|----------|--------|-----------|-------|--------|-----------|------|---|------|----------|
|          | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |
| Chloride | 230    |           | 50.0  | 260    | 4         | mg/L |   | 66   | 75 - 125 |

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: 9251 - Chloride (Continued)

Lab Sample ID: 500-108138-4 MSD  
Matrix: Water  
Analysis Batch: 326673

Client Sample ID: ELUC MW-11  
Prep Type: Dissolved

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Chloride | 230           |                  | 50.0        | 259        | 4             | mg/L |   | 66   | 75 - 125     | 0   | 20        |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-325493/1  
Matrix: Water  
Analysis Batch: 325493

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte                | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10       |              | 10 |     | mg/L |   |          | 03/04/16 00:31 | 1       |

Lab Sample ID: LCS 500-325493/2  
Matrix: Water  
Analysis Batch: 325493

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|-------------|------------|---------------|------|---|------|--------------|
| Total Dissolved Solids | 250         | 294        |               | mg/L |   | 118  | 80 - 120     |

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-325740/3  
Matrix: Water  
Analysis Batch: 325740

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| Fluoride | <0.10     |              | 0.10 |     | mg/L |   |          | 03/05/16 13:52 | 1       |

Lab Sample ID: MB 500-325740/31  
Matrix: Water  
Analysis Batch: 325740

Client Sample ID: Method Blank  
Prep Type: Total/NA

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| Fluoride | <0.10     |              | 0.10 |     | mg/L |   |          | 03/05/16 15:15 | 1       |

Lab Sample ID: LCS 500-325740/32  
Matrix: Water  
Analysis Batch: 325740

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 10.0        | 10.6       |               | mg/L |   | 106  | 80 - 120     |

Lab Sample ID: LCS 500-325740/4  
Matrix: Water  
Analysis Batch: 325740

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|------|---|------|--------------|
| Fluoride | 10.0        | 10.3       |               | mg/L |   | 103  | 80 - 120     |

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-108138-3 MS  
 Matrix: Water  
 Analysis Batch: 325740

Client Sample ID: ELUC MW-10  
 Prep Type: Dissolved

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Fluoride | 0.13          |                  | 5.00        | 5.36      |              | mg/L |   | 105  | 75 - 125     |

Lab Sample ID: 500-108138-3 MSD  
 Matrix: Water  
 Analysis Batch: 325740

Client Sample ID: ELUC MW-10  
 Prep Type: Dissolved

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| Fluoride | 0.13          |                  | 5.00        | 5.36       |               | mg/L |   | 105  | 75 - 125     | 0   | 20    |

## Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-325490/3  
 Matrix: Water  
 Analysis Batch: 325490

Client Sample ID: Method Blank  
 Prep Type: Total/NA

| Analyte           | MB Result | MB Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|-----------|--------------|-------|-----|------|---|----------|----------------|---------|
| Nitrogen, Nitrite | <0.020    |              | 0.020 |     | mg/L |   |          | 03/02/16 11:36 | 1       |

Lab Sample ID: LCS 500-325490/4  
 Matrix: Water  
 Analysis Batch: 325490

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

| Analyte           | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrogen, Nitrite | 0.100       | 0.106      |               | mg/L |   | 106  | 80 - 120     |

Lab Sample ID: MB 500-325491/3  
 Matrix: Water  
 Analysis Batch: 325491

Client Sample ID: Method Blank  
 Prep Type: Total/NA

| Analyte           | MB Result | MB Qualifier | RL    | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------|-----------|--------------|-------|-----|------|---|----------|----------------|---------|
| Nitrogen, Nitrite | <0.020    |              | 0.020 |     | mg/L |   |          | 03/03/16 12:53 | 1       |

Lab Sample ID: LCS 500-325491/4  
 Matrix: Water  
 Analysis Batch: 325491

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

| Analyte           | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrogen, Nitrite | 0.100       | 0.102      |               | mg/L |   | 102  | 80 - 120     |

Lab Sample ID: 500-108138-2 MS  
 Matrix: Water  
 Analysis Batch: 325490

Client Sample ID: ELUC MW-15  
 Prep Type: Dissolved

| Analyte           | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Nitrogen, Nitrite | <0.020        |                  | 0.100       | 0.114     |              | mg/L |   | 103  | 75 - 125     |

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Method: SM 4500 NO2 B - Nitrogen, Nitrite (Continued)

Lab Sample ID: 500-108138-2 MSD  
 Matrix: Water  
 Analysis Batch: 325490

Client Sample ID: ELUC MW-15  
 Prep Type: Dissolved

| Analyte           | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Nitrogen, Nitrite | <0.020        |                  | 0.100       | 0.117      |               | mg/L |   | 106  | 75 - 125     | 3   | 20        |

## Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-327011/12  
 Matrix: Water  
 Analysis Batch: 327011

Client Sample ID: Method Blank  
 Prep Type: Total/NA

| Analyte                   | MB Result | MB Qualifier | RL   | MDL | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| Nitrogen, Nitrate Nitrite | <0.10     |              | 0.10 |     | mg/L |   |          | 03/13/16 23:43 | 1       |

Lab Sample ID: LCS 500-327011/13  
 Matrix: Water  
 Analysis Batch: 327011

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

| Analyte                   | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|------|---|------|--------------|
| Nitrogen, Nitrate Nitrite | 1.00        | 0.989      |               | mg/L |   | 99   | 80 - 120     |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**TestAmerica Chicago**  
 2417 Bond St.  
 University Park, IL 60484  
 708-534-5200  
 Fax: 708-534-5211

**Report To:**

Contact: Rich Gnat  
 Company: KPRG & Associates Inc.  
 Address: 14665 W. Lisbon Rd. Suite 2B  
 Brookfield, WI, 53005  
 Phone: 262-781-0475  
 Fax:  
 Email:

**Bill To:**

Contact:  
 Company:  
 Address:  
 Phone:  
 Fax: 500-108138 COC  
 PO #:

Lab Lot # 500-108138  
 Package Sealed: Yes  No   
 Samples Sealed: Yes  No   
 Received on Ice: Yes  No   
 Samples Intact: Yes  No  N/A   
 Temperature °C of Cooler: -0.8

| Sampler Name:<br>Ian John Howieson          |        | Client Project #<br>12313.2             |               | Refrg #<br># / Cont. |        | Within Hold Time<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>            |     | Preserv. Indicated<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>           |  |
|---|--------|---|---------------|----------------------|--------|--|-----|--|--|
| Project Name:<br>Waukegan Station Ash Ponds |        | TestAmerica Project Number:<br>50004763 |               | Volume<br>Preserv.   |        | pH Check OK<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                 |     | Res CL <sub>2</sub> Check OK<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> |  |
| Project Location:<br>Waukegan, IL           |        | Date Required<br>Hard Copy: / /         |               | Matrix               |        | Sample Labels and COC Agree<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |     | COC not present  |  |
| Lab PM: Eric Lang                           |        | Fax: / /                                |               | # of Containers      |        | Additional Analyses / Remarks  |     |  |  |
| Laboratory ID                               | MS-MSD | Client Sample ID                        | Sampling Date | Time                 | Matrix | # of Containers  | NO2 |  |  |
|   |        | ELUC MW-10                              |               |                      | W      |  |     |  |  |
|   |        | ELUG MW-11                              |               |                      | W      |  |     |  |  |
|   |        | ELUC MW-12                              | 2-29-16       | 7:00                 | W      | 1  | X   |  |  |
|   |        | ELUC MW-14                              |               |                      | W      |  |     |  |  |
| NB N 2                                      |        | ELUC MW-15                              | 2-29-16       | 13:45                | W      | 1  | X   |  |  |

|                                     |                |                |             |                                 |                |                |             |
|-------------------------------------|----------------|----------------|-------------|---------------------------------|----------------|----------------|-------------|
| RELINQUISHED BY: <i>[Signature]</i> | COMPANY: KPRG  | DATE: 2-29-16  | TIME: 18:25 | RECEIVED BY: <i>[Signature]</i> | COMPANY:       | DATE:          | TIME:       |
| RELINQUISHED BY: <i>[Signature]</i> | COMPANY: TA-GA | DATE: 03/01/16 | TIME: 10:30 | RECEIVED BY: <i>[Signature]</i> | COMPANY: TA-GA | DATE: 03/01/16 | TIME: 10:30 |

|  |   |  |
|--|---|--|
| <b>Matrix Key</b><br>WW = Wastewater<br>W = Water<br>S = Soil<br>SL = Sludge<br>MS = Miscellaneous<br>OL = Oil<br>A = Air<br>SE = Sediment<br>SO = Solid<br>DL = Drum Liquid<br>DS = Drum Solid<br>L = Leachate<br>W = Wipe<br>O = _____ | <b>Container Key</b><br>1. Plastic<br>2. VOA Vial<br>3. Sterile Plastic<br>4. Amber Glass<br>5. Widemouth Glass<br>6. Other | <b>Preservative Key</b><br>1. HCl, Cool to 4°<br>2. H <sub>2</sub> SO <sub>4</sub> , Cool to 4°<br>3. HNO <sub>3</sub> , Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. Cool to 4°<br>7. None |
|--|---|--|

COMMENTS:

Date Received: 03/01/16  
 Courier:  
 Hand Delivered:   
 Bill of Lading: 3 of 3  
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STL-8208 (0600)

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**TestAmerica Chicago**  
 2417 Bond St.  
 University Park, IL 60484  
 708-534-5200  
 Fax: 708-534-5211

|                                       |                       |
|---------------------------------------|-----------------------|
| <b>Report To:</b>                     | <b>Bill To:</b>       |
| Contact: Rich Gnat                    | Contact:              |
| Company: KPRG & Associates Inc.       | Company:              |
| Address: 14665 W. Lisbon Rd. Suite 2B | Address:              |
| Brookfield, WI, 53005                 |                       |
| Phone: 262-781-0475                   | Phone: 500-108138 COC |
| Fax:                                  | Fax:                  |
| Email:                                | PO #:                 |



Lab Lot # 500-108138

|  |   |
|--|---|
| Package Sealed<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  | Samples Sealed<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>     |
| Received on Ice<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Samples Intact<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| Temperature °C of Cooler<br><u>(3.2)(2.8)(2.0)(1.4)</u>                                |   |

| <b>Sampler Name:</b><br>Ian John Howieson          |        | <b>Client Project #</b><br>12313.2             |               | <b>Refrg #</b><br># / Cont. |        |                 |                  |   |                 |                                   |         |             |      |  |  | <b>Within Hold Time</b><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>            |  | <b>Preserv. Indicated</b><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A          |  |
|--|--------|--|---------------|-----------------------------|--------|-----------------|------------------|---|-----------------|-----------------------------------|---------|-------------|------|--|--|---|--|---|--|
| <b>Project Name:</b><br>Waukegan Station Ash Ponds |        | <b>TestAmerica Project Number:</b><br>50004763 |               | <b>Volume</b>               |        |                 |                  |   |                 |                                   |         |             |      |  |  | <b>pH Check OK</b><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                 |  | <b>Res Cl<sub>2</sub> Check OK</b><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |
| <b>Project Location:</b><br>Waukegan, IL           |        | <b>Date Required</b><br>Hard Copy: ___/___/___ |               | <b>Preserv.</b>             |        |                 |                  |   |                 |                                   |         |             |      |  |  | <b>Sample Labels and COC Agree</b><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  | <b>COC not present</b>  |  |
| <b>Lab PM:</b> Eric Lang                           |        | <b>Fax:</b> ___/___/___                        |               |                             |        |                 |                  |   |                 |                                   |         |             |      |  |  |   |  | <b>Additional Analyses / Remarks</b>  |  |
| Laboratory ID                                      | MS-MSD | Client Sample ID                               | Sampling Date | Time                        | Matrix | # of Containers | Metals Dissolved | Cl, TDS, SO <sub>4</sub> , F <sub>l</sub> | NO <sub>2</sub> | NO <sub>3</sub> - NO <sub>2</sub> | Cyanide | Perchlorate | BTEX |  |  |   |  |   |  |
| 3  |        | ELUC MW-10                                     | 3-2-16        | 13:00                       | W      | 9               | X                | X   | X               | X                                 | X       | X           | X    |  |  |   |  |   |  |
| 4  |        | ELUC MW-11                                     | 3-2-16        | 15:35                       | W      | 9               | X                | X   | X               | X                                 | X       | X           | X    |  |  |   |  |   |  |
| 1  |        | ELUC MW-12                                     | 2-29-16       | 17:00                       | W      | 8               | X                | X   | X               | X                                 | X       | X           | X    |  |  |   |  |   |  |
| 5  |        | ELUC MW-14                                     | 3-2-16        | 14:25                       | W      | 9               | X                | X   | X               | X                                 | X       | X           | X    |  |  |   |  |   |  |
| NB N2  |        | ELUC MW-15                                     | 2-29-16       | 13:45                       | W      | 8               | X                | X   | X               | X                                 | X       | X           | X    |  |  |   |  |   |  |

|                                     |               |              |             |                                 |              |                |            |
|-------------------------------------|---------------|--------------|-------------|---------------------------------|--------------|----------------|------------|
| RELINQUISHED BY: <i>[Signature]</i> | COMPANY: KPRG | DATE: 3-3-16 | TIME: 13:44 | RECEIVED BY: <i>[Signature]</i> | COMPANY: TAL | DATE: 03/03/16 | TIME: 1345 |
| RELINQUISHED BY:                    | COMPANY:      | DATE:        | TIME:       | RECEIVED BY:                    | COMPANY:     | DATE:          | TIME:      |

- |   |   |  |
|---|---|--|
| <b>Matrix Key</b>   | <b>Container Key</b>  | <b>Preservative Key</b>  |
| WW = Wastewater<br>W = Water<br>S = Soil<br>SL = Sludge<br>MS = Miscellaneous<br>OL = Oil<br>A = Air  | SE = Sediment<br>SO = Solid<br>DL = Drum Liquid<br>DS = Drum Solid<br>L = Leachate<br>W = Wipe<br>O =   | 1. Plastic<br>2. VOA Vial<br>3. Sterile Plastic<br>4. Amber Glass<br>5. Widemouth Glass<br>6. Other<br>7. None |
| SE = Sediment<br>SO = Solid<br>DL = Drum Liquid<br>DS = Drum Solid<br>L = Leachate<br>W = Wipe<br>O = | 1. HCl, Cool to 4°<br>2. H <sub>2</sub> SO <sub>4</sub> , Cool to 4°<br>3. HNO <sub>3</sub> , Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. Cool to 4°<br>7. None |  |

**COMMENTS:**

Date Received 3/3/16

Courier:

Hand Delivered

Bill of Lading:

PAGE 3 of 4

STL-8208 (0600)

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## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-108138-1

**Login Number: 108138**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Sanchez, Ariel M**

| Question   | Answer | Comment                     |
|--|--------|-----------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |                             |
| The cooler's custody seal, if present, is intact.  | True   |                             |
| Sample custody seals, if present, are intact.  | True   |                             |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                             |
| Samples were received on ice.  | True   |                             |
| Cooler Temperature is acceptable.  | True   |                             |
| Cooler Temperature is recorded.  | True   | (-0.8)(3.2)(2.8)(2.0)(1.4)c |
| COC is present.  | True   |                             |
| COC is filled out in ink and legible.  | True   |                             |
| COC is filled out with all pertinent information.  | True   |                             |
| Is the Field Sampler's name present on COC?  | True   |                             |
| There are no discrepancies between the containers received and the COC.                  | True   |                             |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                             |
| Sample containers have legible labels.   | True   |                             |
| Containers are not broken or leaking.  | True   |                             |
| Sample collection date/times are provided.   | True   |                             |
| Appropriate sample containers are used.  | True   |                             |
| Sample bottles are completely filled.  | True   |                             |
| Sample Preservation Verified.  | True   |                             |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                             |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |                             |
| Multiphasic samples are not present.   | True   |                             |
| Samples do not require splitting or compositing.   | True   |                             |
| Residual Chlorine Checked.   | N/A    |                             |

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## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-108138-1

**Login Number: 108138**

**List Number: 2**

**Creator: Hytrek, Cheryl**

**List Source: TestAmerica Sacramento**

**List Creation: 03/04/16 01:28 PM**

| Question  | Answer | Comment          |
|---|--------|------------------|
| Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.      | True   |                  |
| The cooler's custody seal, if present, is intact.   | True   |                  |
| Sample custody seals, if present, are intact.   | N/A    |                  |
| The cooler or samples do not appear to have been compromised or tampered with.                      | True   |                  |
| Samples were received on ice.   | True   |                  |
| Cooler Temperature is acceptable.   | True   |                  |
| Cooler Temperature is recorded.   | True   |                  |
| COC is present.   | True   |                  |
| COC is filled out in ink and legible.   | True   |                  |
| COC is filled out with all pertinent information.   | True   |                  |
| Is the Field Sampler's name present on COC?   | N/A    |                  |
| There are no discrepancies between the containers received and the COC.                             | True   |                  |
| Samples are received within Holding Time (excluding tests with immediate HTs)                       | True   |                  |
| Sample containers have legible labels.  | True   |                  |
| Containers are not broken or leaking.   | True   |                  |
| Sample collection date/times are provided.  | True   |                  |
| Appropriate sample containers are used.   | True   |                  |
| Sample bottles are completely filled.   | False  | headspace in 314 |
| Sample Preservation Verified.   | N/A    |                  |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                    | True   |                  |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | True   |                  |
| Multiphasic samples are not present.  | True   |                  |
| Samples do not require splitting or compositing.  | True   |                  |
| Residual Chlorine Checked.  | N/A    |                  |

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# Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station Ash Ponds

TestAmerica Job ID: 500-108138-1

## Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Illinois  | NELAP   | 5          | 100201           | 04-30-16        |

## Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority          | Program            | EPA Region | Certification ID | Expiration Date |
|--------------------|--------------------|------------|------------------|-----------------|
| A2LA               | DoD ELAP           |            | 2928-01          | 01-31-17        |
| Alaska (UST)       | State Program      | 10         | UST-055          | 12-18-16        |
| Arizona            | State Program      | 9          | AZ0708           | 08-11-16        |
| Arkansas DEQ       | State Program      | 6          | 88-0691          | 06-17-16        |
| California         | State Program      | 9          | 2897             | 01-31-17        |
| Colorado           | State Program      | 8          | N/A              | 08-31-16        |
| Connecticut        | State Program      | 1          | PH-0691          | 06-30-17        |
| Florida            | NELAP              | 4          | E87570           | 06-30-16        |
| Hawaii             | State Program      | 9          | N/A              | 01-31-17        |
| Illinois           | NELAP              | 5          | 200060           | 03-17-17        |
| Kansas             | NELAP              | 7          | E-10375          | 05-31-16        |
| Louisiana          | NELAP              | 6          | 30612            | 06-30-16        |
| Michigan           | State Program      | 5          | 9947             | 01-31-18        |
| Nevada             | State Program      | 9          | CA44             | 07-31-16        |
| New Jersey         | NELAP              | 2          | CA005            | 06-30-16        |
| New York           | NELAP              | 2          | 11666            | 04-01-16        |
| Oregon             | NELAP              | 10         | CA200005         | 01-29-17        |
| Pennsylvania       | NELAP              | 3          | 9947             | 03-31-16        |
| Texas              | NELAP              | 6          | T104704399-15-9  | 05-31-16        |
| US Fish & Wildlife | Federal            |            | LE148388-0       | 10-31-16        |
| USDA               | Federal            |            | P330-11-00436    | 12-30-17        |
| USEPA UCMR         | Federal            | 1          | CA00044          | 11-06-16        |
| Utah               | NELAP              | 8          | QUAN1            | 02-28-17        |
| Virginia           | NELAP Secondary AB | 3          | 460278           | 03-14-17        |
| Washington         | State Program      | 10         | C581             | 05-04-16        |
| West Virginia (DW) | State Program      | 3          | 9930C            | 12-31-16        |
| Wyoming            | State Program      | 8          | 8TMS-Q           | 01-29-17        |