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# Definitions/Glossary

Client:  
Project/Site:

TestAmerica Job ID: 400-61296-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                    |
|-----------|--|
| F         | MS o MSD excede los límites de control   |
| *         | LCS o LCSD excede los límites de control |

## 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   |
| CNF            | Contains no Free Liquid  |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit  |
| EPA            | United States Environmental Protection Agency  |
| MDL            | Method Detection Limit   |
| ML             | Minimum Level (Dioxin)   |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)   |
| PQL            | Practical Quantitation Limit   |
| QC             | Quality Control  |
| RL             | Reporting Limit  |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)  |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)  |

# Case Narrative

Client:  
Project/Site:

TestAmerica Job ID: 400-61296-1

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**Job ID: 400-61296-1**

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**Laboratory: TestAmerica Pensacola**

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Job Narrative  
400-61189-1

## Comments

No additional comments.

## Receipt

All samples were received in good condition within temperature requirements.

## GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 400-144994 over recovered for the following analyte: Ethanol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

## GC VOA

No analytical or quality issues were noted.

## GC Semi VOA

No analytical or quality issues were noted.

## Metals

No analytical or quality issues were noted.

## Organic Prep

No analytical or quality issues were noted.



# Detection Summary

Client:

TestAmerica Job ID: 400-61296-1

## Client Sample ID: APSA TEMP

Lab Sample ID: 400-61296-1

| Analyte                              | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------------------|--------|-----------|--------|------|---------|---|--------|-----------|
| Gasoline Range Organics (GRO) C6-C10 | 0.11   |           | 0.10   | mg/L | 1       |   | 8015M  | Total/NA  |
| Diesel Range Organics [C10-C28]      | 0.19   |           | 0.12   | mg/L | 1       |   | 8015M  | Total/NA  |
| Lead                                 | 0.0050 |           | 0.0050 | mg/L | 1       |   | 6010B  | Total/NA  |

## Client Sample ID: APSA MW1

Lab Sample ID: 400-61296-2

| Analyte                         | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|--------|------|---------|---|--------|-----------|
| Diesel Range Organics [C10-C28] | 0.15   |           | 0.12   | mg/L | 1       |   | 8015M  | Total/NA  |
| Lead                            | 0.013  |           | 0.0050 | mg/L | 1       |   | 6010B  | Total/NA  |

## Client Sample ID: MW5

Lab Sample ID: 400-61296-3

| Analyte                              | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------------------|--------|-----------|--------|------|---------|---|--------|-----------|
| Gasoline Range Organics (GRO) C6-C10 | 0.30   |           | 0.10   | mg/L | 1       |   | 8015M  | Total/NA  |
| Diesel Range Organics [C10-C28]      | 2.8    |           | 0.12   | mg/L | 1       |   | 8015M  | Total/NA  |
| Lead                                 | 0.0092 |           | 0.0050 | mg/L | 1       |   | 6010B  | Total/NA  |

## Client Sample ID: DUP

Lab Sample ID: 400-61296-4

| Analyte                         | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------|--------|-----------|--------|------|---------|---|--------|-----------|
| Diesel Range Organics [C10-C28] | 0.12   |           | 0.12   | mg/L | 1       |   | 8015M  | Total/NA  |
| Lead                            | 0.014  |           | 0.0050 | mg/L | 1       |   | 6010B  | Total/NA  |

## Client Sample ID: TRIP BLANK

Lab Sample ID: 400-61296-5

| Analyte | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|--------|------|---------|---|--------|-----------|
| Toluene | 0.0019 |           | 0.0010 | mg/L | 1       |   | 8260B  | Total/NA  |

# Sample Summary

Client:

TestAmerica Job ID: 400-61296-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 400-61296-1   | APSA TEMP        | Water  | 11/22/11 11:50 | 11/25/11 09:35 |
| 400-61296-2   | APSA MW1         | Water  | 11/23/11 12:20 | 11/25/11 09:35 |
| 400-61296-3   | MW5              | Water  | 11/22/11 17:28 | 11/25/11 09:35 |
| 400-61296-4   | DUP              | Water  | 11/23/11 00:00 | 11/25/11 09:35 |
| 400-61296-5   | TRIP BLANK       | Water  | 11/25/11 00:00 | 11/25/11 09:35 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Client Sample Results

Client:

TestAmerica Job ID: 400-61296-1

**Client Sample ID: APSA TEMP**

**Lab Sample ID: 400-61296-1**

**Date Collected: 11/22/11 11:50**

**Matrix: Water**

**Date Received: 11/25/11 09:35**

**Method: 8260B - VOC**

| Analyte                 | Result | Qualifier | RL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|--------|------|---|----------|----------------|---------|
| Benzene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 10:31 | 1       |
| Toluene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 10:31 | 1       |
| Ethylbenzene            | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 10:31 | 1       |
| Xylenes, Total          | ND     |           | 0.010  | mg/L |   |          | 12/02/11 10:31 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 10:31 | 1       |
| Ethanol                 | ND     |           | 0.10   | mg/L |   |          | 12/02/11 10:31 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 105       |           | 79 - 118 |          | 12/02/11 10:31 | 1       |
| Dibromofluoromethane | 107       |           | 79 - 119 |          | 12/02/11 10:31 | 1       |
| Toluene-d8 (Surr)    | 108       |           | 80 - 120 |          | 12/02/11 10:31 | 1       |

**Method: 8015M - 8015M GRO**

| Analyte                                  | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics (GRO)<br>C6--C10 | 0.11   |           | 0.10 | mg/L |   |          | 11/30/11 16:53 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| a,a,a-Trifluorotoluene (fid) | 103       |           | 78 - 119 |          | 11/30/11 16:53 | 1       |

**Method: 8015M - Diesel Range Organics (DRO)**

| Analyte                         | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 0.19   |           | 0.12 | mg/L |   | 11/28/11 10:54 | 11/29/11 16:13 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 71        |           | 49 - 134 | 11/28/11 10:54 | 11/29/11 16:13 | 1       |

**Method: 6010B - Lead**

| Analyte | Result | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|------|---|----------------|----------------|---------|
| Lead    | 0.0050 |           | 0.0050 | mg/L |   | 11/29/11 10:22 | 11/30/11 18:07 | 1       |

# Client Sample Results

Client:

TestAmerica Job ID: 400-61296-1

**Client Sample ID: APSA MW1**

**Lab Sample ID: 400-61296-2**

**Date Collected: 11/23/11 12:20**

**Matrix: Water**

**Date Received: 11/25/11 09:35**

**Method: 8260B - VOC**

| Analyte                 | Result | Qualifier | RL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|--------|------|---|----------|----------------|---------|
| Benzene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:04 | 1       |
| Toluene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:04 | 1       |
| Ethylbenzene            | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:04 | 1       |
| Xylenes, Total          | ND     |           | 0.010  | mg/L |   |          | 12/02/11 11:04 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:04 | 1       |
| Ethanol                 | ND     |           | 0.10   | mg/L |   |          | 12/02/11 11:04 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 103       |           | 79 - 118 |          | 12/02/11 11:04 | 1       |
| Dibromofluoromethane | 106       |           | 79 - 119 |          | 12/02/11 11:04 | 1       |
| Toluene-d8 (Surr)    | 108       |           | 80 - 120 |          | 12/02/11 11:04 | 1       |

**Method: 8015M - 8015M GRO**

| Analyte                              | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics (GRO) C6-C10 | ND     |           | 0.10 | mg/L |   |          | 11/30/11 17:49 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| a,a,a-Trifluorotoluene (fid) | 103       |           | 78 - 119 |          | 11/30/11 17:49 | 1       |

**Method: 8015M - Diesel Range Organics (DRO)**

| Analyte                         | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 0.15   |           | 0.12 | mg/L |   | 11/28/11 10:54 | 11/29/11 16:22 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 77        |           | 49 - 134 | 11/28/11 10:54 | 11/29/11 16:22 | 1       |

**Method: 6010B - Lead**

| Analyte | Result | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|------|---|----------------|----------------|---------|
| Lead    | 0.013  |           | 0.0050 | mg/L |   | 11/29/11 10:22 | 11/30/11 18:11 | 1       |



# Client Sample Results

Client:

TestAmerica Job ID: 400-61296-1

**Client Sample ID: MW5**  
**Date Collected: 11/22/11 17:28**  
**Date Received: 11/25/11 09:35**

**Lab Sample ID: 400-61296-3**  
**Matrix: Water**

**Method: 8260B - VOC**

| Analyte                 | Result | Qualifier | RL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|--------|------|---|----------|----------------|---------|
| Benzene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:37 | 1       |
| Toluene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:37 | 1       |
| Ethylbenzene            | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:37 | 1       |
| Xylenes, Total          | ND     |           | 0.010  | mg/L |   |          | 12/02/11 11:37 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 11:37 | 1       |
| Ethanol                 | ND     |           | 0.10   | mg/L |   |          | 12/02/11 11:37 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 103       |           | 79 - 118 |          | 12/02/11 11:37 | 1       |
| Dibromofluoromethane | 108       |           | 79 - 119 |          | 12/02/11 11:37 | 1       |
| Toluene-d8 (Surr)    | 107       |           | 80 - 120 |          | 12/02/11 11:37 | 1       |

**Method: 8015M - 8015M GRO**

| Analyte                                  | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--|--------|-----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics (GRO)<br>C6--C10 | 0.30   |           | 0.10 | mg/L |   |          | 11/30/11 18:46 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| a,a,a-Trifluorotoluene (fid) | 104       |           | 78 - 119 |          | 11/30/11 18:46 | 1       |

**Method: 8015M - Diesel Range Organics (DRO)**

| Analyte                         | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 2.8    |           | 0.12 | mg/L |   | 11/28/11 10:54 | 11/29/11 16:32 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 87        |           | 49 - 134 | 11/28/11 10:54 | 11/29/11 16:32 | 1       |

**Method: 6010B - Lead**

| Analyte | Result | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|------|---|----------------|----------------|---------|
| Lead    | 0.0092 |           | 0.0050 | mg/L |   | 11/29/11 10:22 | 11/30/11 18:14 | 1       |

# Client Sample Results

Client:

TestAmerica Job ID: 400-61296-1

**Client Sample ID: DUP**

**Lab Sample ID: 400-61296-4**

**Date Collected: 11/23/11 00:00**

**Matrix: Water**

**Date Received: 11/25/11 09:35**

**Method: 8260B - VOC**

| Analyte                 | Result | Qualifier | RL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|--------|-----------|--------|------|---|----------|----------------|---------|
| Benzene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 12:11 | 1       |
| Toluene                 | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 12:11 | 1       |
| Ethylbenzene            | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 12:11 | 1       |
| Xylenes, Total          | ND     |           | 0.010  | mg/L |   |          | 12/02/11 12:11 | 1       |
| Methyl tert-butyl ether | ND     |           | 0.0010 | mg/L |   |          | 12/02/11 12:11 | 1       |
| Ethanol                 | ND     |           | 0.10   | mg/L |   |          | 12/02/11 12:11 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 105       |           | 79 - 118 |          | 12/02/11 12:11 | 1       |
| Dibromofluoromethane | 106       |           | 79 - 119 |          | 12/02/11 12:11 | 1       |
| Toluene-d8 (Surr)    | 108       |           | 80 - 120 |          | 12/02/11 12:11 | 1       |

**Method: 8015M - 8015M GRO**

| Analyte                              | Result | Qualifier | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Gasoline Range Organics (GRO) C6-C10 | ND     |           | 0.10 | mg/L |   |          | 11/30/11 19:43 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| a,a,a-Trifluorotoluene (fid) | 103       |           | 78 - 119 |          | 11/30/11 19:43 | 1       |

**Method: 8015M - Diesel Range Organics (DRO)**

| Analyte                         | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 0.12   |           | 0.12 | mg/L |   | 11/28/11 10:54 | 11/29/11 16:41 | 1       |

| Surrogate   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 78        |           | 49 - 134 | 11/28/11 10:54 | 11/29/11 16:41 | 1       |

**Method: 6010B - Lead**

| Analyte | Result | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|--------|------|---|----------------|----------------|---------|
| Lead    | 0.014  |           | 0.0050 | mg/L |   | 11/29/11 10:22 | 11/30/11 18:17 | 1       |

# Client Sample Results

Client:

TestAmerica Job ID: 400-61296-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 400-61296-5**

Date Collected: 11/25/11 00:00

Matrix: Water

Date Received: 11/25/11 09:35

**Method: 8260B - VOC**

| Analyte                 | Result        | Qualifier | RL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|---------------|-----------|--------|------|---|----------|----------------|---------|
| Benzene                 | ND            |           | 0.0010 | mg/L |   |          | 12/02/11 12:44 | 1       |
| <b>Toluene</b>          | <b>0.0019</b> |           | 0.0010 | mg/L |   |          | 12/02/11 12:44 | 1       |
| Ethylbenzene            | ND            |           | 0.0010 | mg/L |   |          | 12/02/11 12:44 | 1       |
| Xylenes, Total          | ND            |           | 0.010  | mg/L |   |          | 12/02/11 12:44 | 1       |
| Methyl tert-butyl ether | ND            |           | 0.0010 | mg/L |   |          | 12/02/11 12:44 | 1       |
| Ethanol                 | ND            |           | 0.10   | mg/L |   |          | 12/02/11 12:44 | 1       |

| Surrogate            | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|----------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 104       |           | 79 - 118 |          | 12/02/11 12:44 | 1       |
| Dibromofluoromethane | 107       |           | 79 - 119 |          | 12/02/11 12:44 | 1       |
| Toluene-d8 (Surr)    | 106       |           | 80 - 120 |          | 12/02/11 12:44 | 1       |

# QC Sample Results

Client:  
Project/Site:

TestAmerica Job ID: 400-61296-1

## Method: 8260B - VOC

**Lab Sample ID: MB 400-144994/4**

**Matrix: Water**

**Analysis Batch: 144994**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                 | MB Result | MB Qualifier | RL     | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------------------|-----------|--------------|--------|------|---|----------|----------------|---------|
| Benzene                 | ND        |              | 0.0010 | mg/L |   |          | 12/02/11 09:24 | 1       |
| Toluene                 | ND        |              | 0.0010 | mg/L |   |          | 12/02/11 09:24 | 1       |
| Ethylbenzene            | ND        |              | 0.0010 | mg/L |   |          | 12/02/11 09:24 | 1       |
| Xylenes, Total          | ND        |              | 0.010  | mg/L |   |          | 12/02/11 09:24 | 1       |
| Methyl tert-butyl ether | ND        |              | 0.0010 | mg/L |   |          | 12/02/11 09:24 | 1       |
| Ethanol                 | ND        |              | 0.10   | mg/L |   |          | 12/02/11 09:24 | 1       |

| Surrogate            | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|----------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 102          |              | 79 - 118 |          | 12/02/11 09:24 | 1       |
| Dibromofluoromethane | 106          |              | 79 - 119 |          | 12/02/11 09:24 | 1       |
| Toluene-d8 (Surr)    | 107          |              | 80 - 120 |          | 12/02/11 09:24 | 1       |

**Lab Sample ID: LCS 400-144994/5**

**Matrix: Water**

**Analysis Batch: 144994**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

| Analyte                 | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|------|---|------|--------------|
| Benzene                 | 0.0500      | 0.0537     |               | mg/L |   | 107  | 75 - 122     |
| Toluene                 | 0.0500      | 0.0501     |               | mg/L |   | 100  | 76 - 120     |
| Ethylbenzene            | 0.0500      | 0.0578     |               | mg/L |   | 116  | 77 - 126     |
| Xylenes, Total          | 0.150       | 0.175      |               | mg/L |   | 117  | 78 - 125     |
| Methyl tert-butyl ether | 0.0500      | 0.0527     |               | mg/L |   | 105  | 69 - 123     |
| Ethanol                 | 0.250       | 0.707 *    |               | mg/L |   | 283  | 10 - 150     |

| Surrogate            | LCS %Recovery | LCS Qualifier | Limits   |
|----------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene | 107           |               | 79 - 118 |
| Dibromofluoromethane | 107           |               | 79 - 119 |
| Toluene-d8 (Surr)    | 108           |               | 80 - 120 |

**Lab Sample ID: 400-61296-1 MS**

**Matrix: Water**

**Analysis Batch: 144994**

**Client Sample ID: APSA TEMP**

**Prep Type: Total/NA**

| Analyte                 | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Benzene                 | ND            |                  | 0.0500      | 0.0459    |              | mg/L |   | 92   | 50 - 140     |
| Toluene                 | ND            |                  | 0.0500      | 0.0383    |              | mg/L |   | 77   | 48 - 131     |
| Ethylbenzene            | ND            |                  | 0.0500      | 0.0370    |              | mg/L |   | 74   | 33 - 138     |
| Xylenes, Total          | ND            |                  | 0.150       | 0.112     |              | mg/L |   | 74   | 31 - 139     |
| Methyl tert-butyl ether | ND            |                  | 0.0500      | 0.0538    |              | mg/L |   | 108  | 62 - 139     |
| Ethanol                 | ND            |                  | 0.250       | 0.546 F   |              | mg/L |   | 219  | 10 - 150     |

| Surrogate            | MS %Recovery | MS Qualifier | Limits   |
|----------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene | 109          |              | 79 - 118 |
| Dibromofluoromethane | 105          |              | 79 - 119 |
| Toluene-d8 (Surr)    | 107          |              | 80 - 120 |

# QC Sample Results

Client:

TestAmerica Job ID: 400-61296-1

## Method: 8260B - VOC (Continued)

Lab Sample ID: 400-61296-1 MSD

Matrix: Water

Analysis Batch: 144994

Client Sample ID: APSA TEMP

Prep Type: Total/NA

| Analyte                 | Sample | Sample    | Spike  | MSD    | MSD       | Unit | D | %Rec | %Rec.    |     | RPD | Limit |
|-------------------------|--------|-----------|--------|--------|-----------|------|---|------|----------|-----|-----|-------|
|                         | Result | Qualifier |        | Result | Qualifier |      |   |      | Limits   | RPD |     |       |
| Benzene                 | ND     |           | 0.0500 | 0.0499 |           | mg/L |   | 100  | 50 - 140 | 8   | 24  |       |
| Toluene                 | ND     |           | 0.0500 | 0.0405 |           | mg/L |   | 81   | 48 - 131 | 6   | 34  |       |
| Ethylbenzene            | ND     |           | 0.0500 | 0.0373 |           | mg/L |   | 75   | 33 - 138 | 1   | 49  |       |
| Xylenes, Total          | ND     |           | 0.150  | 0.114  |           | mg/L |   | 76   | 31 - 139 | 2   | 50  |       |
| Methyl tert-butyl ether | ND     |           | 0.0500 | 0.0597 |           | mg/L |   | 119  | 62 - 139 | 10  | 24  |       |
| Ethanol                 | ND     |           | 0.250  | 0.491  | F         | mg/L |   | 196  | 10 - 150 | 11  | 64  |       |

  

| Surrogate            | MSD       | MSD       | Limits   |
|----------------------|-----------|-----------|----------|
|                      | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene | 110       |           | 79 - 118 |
| Dibromofluoromethane | 105       |           | 79 - 119 |
| Toluene-d8 (Surr)    | 107       |           | 80 - 120 |

## Method: 8015M - 8015M GRO

Lab Sample ID: MB 400-144873/2

Matrix: Water

Analysis Batch: 144873

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                              | MB     | MB        | RL   | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|------|---|----------|----------------|---------|
|                                      | Result | Qualifier |      |      |   |          |                |         |
| Gasoline Range Organics (GRO) C6-C10 | ND     |           | 0.10 | mg/L |   |          | 11/30/11 10:23 | 1       |

  

| Surrogate                    | MB        | MB        | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| a,a,a-Trifluorotoluene (fid) | 103       |           | 78 - 119 |          | 11/30/11 10:23 | 1       |

Lab Sample ID: LCS 400-144873/3

Matrix: Water

Analysis Batch: 144873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                              | Spike | LCS    | LCS       | Unit | D | %Rec | %Rec.    |     |
|--------------------------------------|-------|--------|-----------|------|---|------|----------|-----|
|                                      |       | Result | Qualifier |      |   |      | Limits   | RPD |
| Gasoline Range Organics (GRO) C6-C10 | 1.00  | 0.917  |           | mg/L |   | 92   | 71 - 128 |     |

  

| Surrogate                    | LCS       | LCS       | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| a,a,a-Trifluorotoluene (fid) | 102       |           | 78 - 119 |

## Method: 8015M - Diesel Range Organics (DRO)

Lab Sample ID: MB 400-144662/1-A

Matrix: Water

Analysis Batch: 144822

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 144662

| Analyte                         | MB     | MB        | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
|                                 | Result | Qualifier |      |      |   |                |                |         |
| Diesel Range Organics [C10-C28] | ND     |           | 0.13 | mg/L |   | 11/28/11 08:15 | 11/29/11 15:17 | 1       |

  

| Surrogate   | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
|             | %Recovery | Qualifier |          |                |                |         |
| o-Terphenyl | 90        |           | 49 - 134 | 11/28/11 08:15 | 11/29/11 15:17 | 1       |

# QC Sample Results

Client:

TestAmerica Job ID: 400-61296-1

## Method: 8015M - Diesel Range Organics (DRO) (Continued)

**Lab Sample ID: LCS 400-144662/2-A**

**Matrix: Water**

**Analysis Batch: 144822**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 144662**

| Analyte                            | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|------------------------------------|----------------|---------------|------------------|------|---|------|-----------------|
| Diesel Range Organics<br>[C10-C28] | 10.1           | 8.91          |                  | mg/L | - | 89   | 52 - 128        |
| <b>Surrogate</b>                   |                | <b>LCS</b>    | <b>LCS</b>       |      |   |      |                 |
| <i>o</i> -Terphenyl                |                | %Recovery     | Qualifier        |      |   |      | Limits          |
|                                    |                | 71            |                  |      |   |      | 49 - 134        |

## Method: 6010B - Lead

**Lab Sample ID: MB 400-144791/24-A**

**Matrix: Water**

**Analysis Batch: 144920**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 144791**

| Analyte | MB<br>Result | MB<br>Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------------|-----------------|--------|------|---|----------------|----------------|---------|
| Lead    | ND           |                 | 0.0050 | mg/L | - | 11/29/11 10:22 | 11/30/11 17:31 | 1       |

**Lab Sample ID: LCS 400-144791/25-A**

**Matrix: Water**

**Analysis Batch: 144920**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 144791**

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec.<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|-----------------|
| Lead    | 1.00           | 0.997         |                  | mg/L | - | 100  | 80 - 120        |

# QC Association Summary

Client:

TestAmerica Job ID: 400-61296-1

## GC/MS VOA

### Analysis Batch: 144994

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 400-61296-1      | APSA TEMP          | Total/NA  | Water  | 8260B  |            |
| 400-61296-1 MS   | APSA TEMP          | Total/NA  | Water  | 8260B  |            |
| 400-61296-1 MSD  | APSA TEMP          | Total/NA  | Water  | 8260B  |            |
| 400-61296-2      | APSA MW1           | Total/NA  | Water  | 8260B  |            |
| 400-61296-3      | MW5                | Total/NA  | Water  | 8260B  |            |
| 400-61296-4      | DUP                | Total/NA  | Water  | 8260B  |            |
| 400-61296-5      | TRIP BLANK         | Total/NA  | Water  | 8260B  |            |
| LCS 400-144994/5 | Lab Control Sample | Total/NA  | Water  | 8260B  |            |
| MB 400-144994/4  | Method Blank       | Total/NA  | Water  | 8260B  |            |

## GC VOA

### Analysis Batch: 144873

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 400-61296-1      | APSA TEMP          | Total/NA  | Water  | 8015M  |            |
| 400-61296-2      | APSA MW1           | Total/NA  | Water  | 8015M  |            |
| 400-61296-3      | MW5                | Total/NA  | Water  | 8015M  |            |
| 400-61296-4      | DUP                | Total/NA  | Water  | 8015M  |            |
| LCS 400-144873/3 | Lab Control Sample | Total/NA  | Water  | 8015M  |            |
| MB 400-144873/2  | Method Blank       | Total/NA  | Water  | 8015M  |            |

## GC Semi VOA

### Prep Batch: 144662

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-61296-1        | APSA TEMP          | Total/NA  | Water  | 3520C  |            |
| 400-61296-2        | APSA MW1           | Total/NA  | Water  | 3520C  |            |
| 400-61296-3        | MW5                | Total/NA  | Water  | 3520C  |            |
| 400-61296-4        | DUP                | Total/NA  | Water  | 3520C  |            |
| LCS 400-144662/2-A | Lab Control Sample | Total/NA  | Water  | 3520C  |            |
| MB 400-144662/1-A  | Method Blank       | Total/NA  | Water  | 3520C  |            |

### Analysis Batch: 144822

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 400-61296-1        | APSA TEMP          | Total/NA  | Water  | 8015M  | 144662     |
| 400-61296-2        | APSA MW1           | Total/NA  | Water  | 8015M  | 144662     |
| 400-61296-3        | MW5                | Total/NA  | Water  | 8015M  | 144662     |
| 400-61296-4        | DUP                | Total/NA  | Water  | 8015M  | 144662     |
| LCS 400-144662/2-A | Lab Control Sample | Total/NA  | Water  | 8015M  | 144662     |
| MB 400-144662/1-A  | Method Blank       | Total/NA  | Water  | 8015M  | 144662     |

## Metals

### Prep Batch: 144791

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 400-61296-1         | APSA TEMP          | Total/NA  | Water  | 3010A  |            |
| 400-61296-2         | APSA MW1           | Total/NA  | Water  | 3010A  |            |
| 400-61296-3         | MW5                | Total/NA  | Water  | 3010A  |            |
| 400-61296-4         | DUP                | Total/NA  | Water  | 3010A  |            |
| LCS 400-144791/25-A | Lab Control Sample | Total/NA  | Water  | 3010A  |            |
| MB 400-144791/24-A  | Method Blank       | Total/NA  | Water  | 3010A  |            |

# QC Association Summary

Client:

TestAmerica Job ID: 400-61296-1

## Metals (Continued)

### Analysis Batch: 144920

| Lab Sample ID       | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 400-61296-1         | APSA TEMP          | Total/NA  | Water  | 6010B  | 144791     |
| 400-61296-2         | APSA MW1           | Total/NA  | Water  | 6010B  | 144791     |
| 400-61296-3         | MW5                | Total/NA  | Water  | 6010B  | 144791     |
| 400-61296-4         | DUP                | Total/NA  | Water  | 6010B  | 144791     |
| LCS 400-144791/25-A | Lab Control Sample | Total/NA  | Water  | 6010B  | 144791     |
| MB 400-144791/24-A  | Method Blank       | Total/NA  | Water  | 6010B  | 144791     |

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# Lab Chronicle

Client:

**Client Sample ID: APSA TEMP**

**Lab Sample ID: 400-61296-1**

Date Collected: 11/22/11 11:50

Matrix: Water

Date Received: 11/25/11 09:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 144994       | 12/02/11 10:31       | WD      | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144873       | 11/30/11 16:53       | MA      | TAL PEN |
| Total/NA  | Prep       | 3520C        |     |                 | 144662       | 11/28/11 10:54       | MTM     | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144822       | 11/29/11 16:13       | DW      | TAL PEN |
| Total/NA  | Prep       | 3010A        |     |                 | 144791       | 11/29/11 10:22       | KN      | TAL PEN |
| Total/NA  | Analysis   | 6010B        |     | 1               | 144920       | 11/30/11 18:07       | GS      | TAL PEN |

**Client Sample ID: APSA MW1**

**Lab Sample ID: 400-61296-2**

Date Collected: 11/23/11 12:20

Matrix: Water

Date Received: 11/25/11 09:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 144994       | 12/02/11 11:04       | WD      | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144873       | 11/30/11 17:49       | MA      | TAL PEN |
| Total/NA  | Prep       | 3520C        |     |                 | 144662       | 11/28/11 10:54       | MTM     | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144822       | 11/29/11 16:22       | DW      | TAL PEN |
| Total/NA  | Prep       | 3010A        |     |                 | 144791       | 11/29/11 10:22       | KN      | TAL PEN |
| Total/NA  | Analysis   | 6010B        |     | 1               | 144920       | 11/30/11 18:11       | GS      | TAL PEN |

**Client Sample ID: MW5**

**Lab Sample ID: 400-61296-3**

Date Collected: 11/22/11 17:28

Matrix: Water

Date Received: 11/25/11 09:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 144994       | 12/02/11 11:37       | WD      | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144873       | 11/30/11 18:46       | MA      | TAL PEN |
| Total/NA  | Prep       | 3520C        |     |                 | 144662       | 11/28/11 10:54       | MTM     | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144822       | 11/29/11 16:32       | DW      | TAL PEN |
| Total/NA  | Prep       | 3010A        |     |                 | 144791       | 11/29/11 10:22       | KN      | TAL PEN |
| Total/NA  | Analysis   | 6010B        |     | 1               | 144920       | 11/30/11 18:14       | GS      | TAL PEN |

**Client Sample ID: DUP**

**Lab Sample ID: 400-61296-4**

Date Collected: 11/23/11 00:00

Matrix: Water

Date Received: 11/25/11 09:35

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 144994       | 12/02/11 12:11       | WD      | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144873       | 11/30/11 19:43       | MA      | TAL PEN |
| Total/NA  | Prep       | 3520C        |     |                 | 144662       | 11/28/11 10:54       | MTM     | TAL PEN |
| Total/NA  | Analysis   | 8015M        |     | 1               | 144822       | 11/29/11 16:41       | DW      | TAL PEN |
| Total/NA  | Prep       | 3010A        |     |                 | 144791       | 11/29/11 10:22       | KN      | TAL PEN |
| Total/NA  | Analysis   | 6010B        |     | 1               | 144920       | 11/30/11 18:17       | GS      | TAL PEN |

# Lab Chronicle

Client:

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 400-61296-5**

**Date Collected: 11/25/11 00:00**

**Matrix: Water**

**Date Received: 11/25/11 09:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8260B        |     | 1               | 144994       | 12/02/11 12:44       | WD      | TAL PEN |

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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# Certification Summary

Client:

| Laboratory            | Authority           | Program       | EPA Region | Certification ID |
|-----------------------|---------------------|---------------|------------|------------------|
| TestAmerica Pensacola | Alabama             | State Program | 4          | 40150            |
| TestAmerica Pensacola | Arizona             | State Program | 9          | AZ0710           |
| TestAmerica Pensacola | Arkansas DEQ        | State Program | 6          | 88-0689          |
| TestAmerica Pensacola | Florida             | NELAC         | 4          | E81010           |
| TestAmerica Pensacola | Georgia             | State Program | 4          | N/A              |
| TestAmerica Pensacola | Illinois            | NELAC         | 5          | 200041           |
| TestAmerica Pensacola | Iowa                | State Program | 7          | 367              |
| TestAmerica Pensacola | Kansas              | NELAC         | 7          | E-10253          |
| TestAmerica Pensacola | Kentucky (UST)      | State Program | 4          | 53               |
| TestAmerica Pensacola | Louisiana           | NELAC         | 6          | 30976            |
| TestAmerica Pensacola | Maryland            | State Program | 3          | 233              |
| TestAmerica Pensacola | Massachusetts       | State Program | 1          | M-FL094          |
| TestAmerica Pensacola | Michigan            | State Program | 5          | 9912             |
| TestAmerica Pensacola | New Hampshire       | NELAC         | 1          | 2505             |
| TestAmerica Pensacola | New Jersey          | NELAC         | 2          | FL006            |
| TestAmerica Pensacola | North Carolina DENR | State Program | 4          | 314              |
| TestAmerica Pensacola | Oklahoma            | State Program | 6          | 9810             |
| TestAmerica Pensacola | Pennsylvania        | NELAC         | 3          | 68-00467         |
| TestAmerica Pensacola | Rhode Island        | State Program | 1          | LAO00307         |
| TestAmerica Pensacola | South Carolina      | State Program | 4          | 96026            |
| TestAmerica Pensacola | Tennessee           | State Program | 4          | TN02907          |
| TestAmerica Pensacola | Texas               | NELAC         | 6          | T104704286-11-3  |
| TestAmerica Pensacola | USDA                | Federal       |            | P330-10-00407    |
| TestAmerica Pensacola | Virginia            | NELAC         | 3          | 460166           |
| TestAmerica Pensacola | Washington          | State Program | 10         | C915             |
| TestAmerica Pensacola | West Virginia DEP   | State Program | 3          | 136              |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



# Method Summary

Client:

TestAmerica Job ID: 400-61296-1

| Method | Method Description          | Protocol | Laboratory |
|--------|-----------------------------|----------|------------|
| 8260B  | VOC                         | SW846    | TAL PEN    |
| 8015M  | 8015M GRO                   | SW846    | TAL PEN    |
| 8015M  | Diesel Range Organics (DRO) | EPA      | TAL PEN    |
| 6010B  | Lead                        | SW846    | TAL PEN    |

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001





## Login Sample Receipt Checklist

Client:

Job Number: 400-61296-1

**Login Number: 61296**

**List Number: 1**

**Creator: Hor, Koma**

**List Source: TestAmerica Pensacola**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A    |         |
| The cooler's custody seal, if present, is 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   | 1.8°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 sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time.  | 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   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | True   |         |

