



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu, Hawaii 96813
Generated 5/19/2023 4:21:08 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-127192-1

Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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Authorized for release by
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Case Narrative

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127192-1

Job ID: 580-127192-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-127192-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Three samples were received on 5/12/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW02-WGN01LF-2305W2 (580-127192-1), AF-RHMW02-WGFD01LF-2305W2 (580-127192-2) and AF-RHMW03-WGN01LF-2305W2 (580-127192-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/14/2023.

The continuing calibration verification (CCV) associated with batch 680-778520 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data has been reported.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| M | Manual integrated compound. |
| Q | One or more quality control criteria failed. |
| U | Undetected at the Limit of Detection. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| 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) |
| TNTC | Too Numerous To Count |

Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127192-1

Client Sample ID: AF-RHMW02-WGN01LF-2305W2

Lab Sample ID: 580-127192-1

Date Collected: 05/11/23 10:15

Matrix: Water

Date Received: 05/12/23 09:45

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M Q | 5.0 | 1.1 | mg/L | | | 05/14/23 05:04 | 1 |

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Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127192-1

Client Sample ID: AF-RHMW02-WGFD01LF-2305W2

Lab Sample ID: 580-127192-2

Date Collected: 05/11/23 10:15

Matrix: Water

Date Received: 05/12/23 09:45

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M Q | 5.0 | 1.1 | mg/L | | | 05/14/23 05:28 | 1 |

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Client Sample Results

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127192-1

Client Sample ID: AF-RHMW03-WGN01LF-2305W2

Lab Sample ID: 580-127192-3

Date Collected: 05/11/23 11:45

Matrix: Water

Date Received: 05/12/23 09:45

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

| Analyte | Result | Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U M Q | 5.0 | 1.1 | mg/L | | | 05/14/23 05:51 | 1 |

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QC Sample Results

Client: AECOM
 Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127192-1

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-778520/9
Matrix: Water
Analysis Batch: 778520

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

| Analyte | MB Result | MB Qualifier | LOQ | DL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|--------------|-----|-----|------|---|----------|----------------|---------|
| 2-(2-Butoxyethoxy)ethanol | 3.0 | U | 5.0 | 1.1 | mg/L | | | 05/13/23 17:04 | 1 |

Lab Sample ID: LCS 680-778520/1005
Matrix: Water
Analysis Batch: 778520

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------|-------------|------------|---------------|------|---|------|-------------|
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 21.4 | | mg/L | | 107 | 50 - 150 |

Lab Sample ID: LCSD 680-778520/6
Matrix: Water
Analysis Batch: 778520

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 2-(2-Butoxyethoxy)ethanol | 20.0 | 23.6 | | mg/L | | 118 | 50 - 150 | 10 | 50 |

Lab Chronicle

Client: AECOM

Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2305W2

Lab Sample ID: 580-127192-1

Date Collected: 05/11/23 10:15

Matrix: Water

Date Received: 05/12/23 09:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 778520 | GEM | EET SAV | 05/14/23 05:04 |

Client Sample ID: AF-RHMW02-WGFD01LF-2305W2

Lab Sample ID: 580-127192-2

Date Collected: 05/11/23 10:15

Matrix: Water

Date Received: 05/12/23 09:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 778520 | GEM | EET SAV | 05/14/23 05:28 |

Client Sample ID: AF-RHMW03-WGN01LF-2305W2

Lab Sample ID: 580-127192-3

Date Collected: 05/11/23 11:45

Matrix: Water

Date Received: 05/12/23 09:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8015C GLY | | 1 | 778520 | GEM | EET SAV | 05/14/23 05:51 |

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM
Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127192-1

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|-----------------------|-----------------------|-----------------|
| ANAB | Dept. of Defense ELAP | L2463 | 09-22-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|---------------------------|
| 8015C GLY | | Water | 2-(2-Butoxyethoxy)ethanol |

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Sample Summary

Client: AECOM

Job ID: 580-127192-1

Project/Site: Red Hill - AFFF Assessment Sampling

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|---------------------------|--------|----------------|----------------|
| 580-127192-1 | AF-RHMW02-WGN01LF-2305W2 | Water | 05/11/23 10:15 | 05/12/23 09:45 |
| 580-127192-2 | AF-RHMW02-WGFD01LF-2305W2 | Water | 05/11/23 10:15 | 05/12/23 09:45 |
| 580-127192-3 | AF-RHMW03-WGN01LF-2305W2 | Water | 05/11/23 11:45 | 05/12/23 09:45 |

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Eurofins Seattle

5755 8th Street East
Tacoma, WA 98424
Phone 253-922-2310

Chain of Custody Record



| Client Information (Sub Contract Lab) | | Sampler: Walker, Marie E | | Lab PM: Walker, Marie E | | Carrier Tracking No(s): | | COC No: 580-119737 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------|--|----------------------------|---|--|--|--|---|--|--------------------|--|--|--|--|--|--|--|--|--|-----------------------------------|-----------------------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|
| Client Contact: Shipping/Receiving | | Phone: M Elaine Walker@et.eurofinsus.com | | E Mail: M Elaine Walker@et.eurofinsus.com | | State of Origin: Hawaii | | Page: Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: Eurofins Environment Testing Southeast | | | | Accreditations Required (See note): Dept of Defense ELAP - ANAB | | | | Job #: 580-127192-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 5102 LaRoche Avenue, Savannah, GA, 31404 | | Due Date Requested: 5/18/2023 | | <table border="1"> <thead> <tr> <th colspan="10">Analysis Requested</th> </tr> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform: MS/MSD (Yes or No)</th> <th>8015C_DAL_GL_DS/2-Butoxyethoxy/ethanol</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> </thead> <tbody> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table> | | | | | | Analysis Requested | | | | | | | | | | Field Filtered Sample (Yes or No) | Perform: MS/MSD (Yes or No) | 8015C_DAL_GL_DS/2-Butoxyethoxy/ethanol | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify) | |
| Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Field Filtered Sample (Yes or No) | Perform: MS/MSD (Yes or No) | 8015C_DAL_GL_DS/2-Butoxyethoxy/ethanol | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Red Hill - AFFF Assessment Sampling | | Project #: 58018727 | | PO #: | | WO #: | | Other: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site: | | SSOW#: | | Sample Identification - Client ID (Lab ID) | | Sample Date | | Sample Time | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Sample Type (C=comp, G=grab) | | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | | Preservation Code: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Special Instructions/Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF-RHMW02-WGN01LF-2305WK2 (580-127192-1) | | 5/11/23 | | 10 15 Hawaiian | | Water | | 3 Include LCS/LCSD and MS/MSD on one of the samples | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF-RHMW02-WGFD01LF-2305WK2 (580-127192-2) | | 5/11/23 | | 10 15 Hawaiian | | Water | | 3 Include LCS/LCSD and MS/MSD on one of the samples | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AF-RHMW03-WGN01LF-2305WK2 (580-127192-3) | | 5/11/23 | | 11 45 Hawaiian | | Water | | 3 Include LCS/LCSD and MS/MSD on one of the samples | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Northwest, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unconfirmed | | | | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deliverable Requested I, II, III, IV, Other (specify) | | | Primary Deliverable Rank 4 | | Special Instructions/QC Requirements | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Empty Kit Relinquished by | | Date | | Time | | Method of Shipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <i>[Signature]</i> | | Date/Time: 5/12/23 1300 | | Company: EETN | | Received by: <i>[Signature]</i> | | Date/Time: 05/13/23 10:50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: | | Date/Time: | | Company: | | Received by: | | Date/Time: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Custody Seals Intact Δ Yes Δ No | | Custody Seal No | | Cooler Temperature(s) °C and Other Remarks | | 4-8/4-6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-127192-1

Login Number: 127192

List Number: 1

Creator: Groves, Elizabeth

List Source: Eurofins Seattle

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| 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 | |
| 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 <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-127192-1

Login Number: 127192

List Number: 2

Creator: Padayao, Abigail

List Source: Eurofins Savannah

List Creation: 05/13/23 12:37 PM

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| 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 | |
| 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. | True | |
| 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 <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |