

SARA Lab Analytical Report Guide

For samples submitted to the San Antonio River Authority Environmental Sciences Laboratory; customers will receive an analytical report via email, fax, or mail. The report identifies information specific to the sample such as, client, location, analyses, methods, reporting limit, test results, data qualifiers, acceptance criteria, and case narratives. Listed below are descriptors for symbols that may be seen on the analytical report.

Example:



Environmental Sciences Department Laboratory ANALYTICAL REPORT



December 02, 2016

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Client:

This analytical report is intended exclusively for the individual or entity to which it is addressed. Recipient is not authorized to print or copy this report, except in full without written approval of the laboratory. If you have received this report in error, please notify the San Antonio River Authority.

Fax #:

Sample Location:
Sample Number:
Sample Matrix:

Collection Date/Time:
Receipt Date/Time:

1. CASE NARRATIVE

This report provides results related only to the referenced sample ID numbers. All samples were received in acceptable condition unless otherwise noted. For questions regarding this report, please contact Greg Mateo, Laboratory Supervisor, at (210) 302-3290.

Analysis identified with a "v" complies with 2. NELAP requirements unless otherwise specified in the case narrative.

No sample and/or analysis comment(s)

ANALYTICAL RESULTS

Analyses	NELAP	Analysis Method	Result	Units	4. Qualifier	5. Reporting Limit	6. QC Batch Number	Analysis		Analyst
								Date	Time	
AA00000-H Copper - Total	√	EPA 200.8-1994	0.106	mg/L		0.0010	49955	11/22/16	17:12	ZJ
AA00000-H Lead - Total	√	EPA 200.8-1994	<0.0010	mg/L		0.0010	49957	11/22/16	20:41	ZJ

A - Outside upper acceptance criteria
D - Outside lower acceptance criteria
T - Microbiological Controls were unacceptable

H - Hold Time for preparation or analysis exceeded
J - Analyte detected outside quantitation limit

* - See Case Narrative
-- - Not Applicable

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The data in this report is current as of: 12/2/2016 5:40:03PM as validated by JH

1. Case Narrative: Describes relevant sample information documented upon receipt and analysis.
2. NELAP: National Environmental Laboratory Accreditation Program.
3. Checkmark: Analyses complies with NELAP requirements.
4. Qualifier: Data is qualified. See key at the bottom of report and/or the case narrative.
5. Reporting Limit: Lowest number result can be reported. Typically, the lowest standard in a curve.
6. Quality Control Batch Number: Number used to group samples receiving the same analysis method, personnel and supplies in the lab on a given date.
7. Sample Number and Container ID: Unique number and container ID given to each sample

8. QC ANALYTICAL RESULTS

14.

QC Batch Name: CU_PPM-49955

QC Analyte Name	Result	Units	Qualifier	Lower	Target	Upper
LOQ Recovery for Copper	102.7	%		70	---	130
MB Result for Copper	<1.0	ug/L		---	---	1.0
LCS Recovery for Copper	99.5	%		85	---	115
LCSD Recovery for Copper	99.1	%		85	---	115
LCS/LCSD RPD for Copper	0.4	%		0.0	---	20
MS Recovery for Copper	98.4	%		70	---	130
MSD Recovery for Copper	98.0	%		70	---	130
MS Precision for Copper	0.4	%		0.0	---	20
Sample RPD for Copper	0.8	%		0.0	---	20

Acceptance Criteria

QC Batch Name: PB_PPM-49957

QC Analyte Name
Sample RPD for Lead
MS Precision for Lead
MSD Recovery for Lead
MS Recovery for Lead
LCS/LCSD RPD for Lead
LCSD Recovery for Lead
LCS Recovery for Lead
MB Result for Lead

QC Analyte Name	Lower	Target	Upper
9. LOQ Recovery for Copper	0.0	---	20
10. MB Result for Copper	0.0	---	20
11. LCS Recovery for Copper	70	---	130
LCSD Recovery for Copper	70	---	130
12. LCS/LCSD RPD for Copper	0.0	---	20
MS Recovery for Copper	85	---	115
MSD Recovery for Copper	85	---	115
MS Precision for Copper	---	---	1.0
13. Sample RPD for Copper	---	---	1.0

Acceptance Criteria

Lower	Target	Upper
0.0	---	20
0.0	---	20
70	---	130
70	---	130
0.0	---	20
85	---	115
85	---	115
---	---	1.0



Jeanette Hernandez
Water Quality Planner / QAO

A - Outside upper acceptance criteria
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8. QC (Quality Control): System of checks that measures the performance against a defined set of standards established by the customer, program, or project to ensure results are of acceptable quality.
9. LOQ (Limit of Quantitation): The minimum amount of a substance that can be reported with a specific degree of confidence.
10. MB (Method Blank): A standard matrix free from the analytes of interest processed under the same conditions as samples.
11. LCS (Lab Control Sample): A standard matrix spiked with a known amount of analyte processed under the same conditions as the samples, used to measure accuracy and precision. LCSD: a duplicate of the laboratory control sample.
12. MS (Matrix Spike): A sample spiked with a known amount of the target analyte, taken through all steps of the procedure, measures the effect of sample on recovery. MSD: a duplicate of the matrix spike sample.
13. RPD (Relative Percent Difference): Measures the precision of two analytical results using matrix duplicates.
14. Acceptance Criteria: Specified limits set for the Quality Control.
15. Target – Specified result set for the Quality Control.