CWA - Non-Potable Water
FINAL Performance Evaluation Report
NSI Laboratory Proficiency Testing Program
Study WP-312 - Shipped: 11/05/2025 - Closed: 12/19/2025 - Reports Printed On: 01/05/2025
Participant USEPA Labcode: Not Provided

Study Designed and Coordinated by:
NSI Lab Solutions
7212 ACC Blvd., Raleigh, NC 27617
ANAB Certificate#: AP-1693-1
1-800-234-7837

This evaluation report is being submitted to:
Corporacion Autonoma del Cauca-CRC
Attention: Diego Zuluaga Vera
Laboratorio Ambiental
Cr7 1 N-28 Edif Edgar Negret
Popayan Colombia, 2, 8333232

LabCode and Accreditation Information:
Send Results to: Lab Only
Reports to:

Participant Information
NSI Lab Code: N01532X1

This report was submitted by Diego Zuluaga Vera, Responsable Laboratorio Ambiental CRC
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Please contact Hunter Fazler at NSI Lab Solutions if you have any questions about this report.
(800) 234-7837 - hunter.fazler@antylia.com
This PT report may contain data not covered under ANAB Accreditation. Such data is noted by an asterisk.

PEI-079 Residue - Corporacion Autonoma del Cauca-CRC - NSI Lab Solutions/WP-312

TNI Analyte	Analyte	TNI Method Code	TNI Tech. Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	Standard Deviation	Acceptance Limits	Z-Score	Evaluation	Analysis Date	Analyst's Name
1960	Residue-nonfilterable (TSS)	n/a	GRAV	SM 2540 D 24th ED 2023	94.4	91.7	93.7	mg/L	8.33	77.3 to 104	0.324	ACCEPT.	9/12/25	Diana Bolaños
1950	Residue-total (TS)	n/a	GRAV	SM 2540 B 24th ED 2023	591	587	596	mg/L	18.8	536 to 656	0.213	ACCEPT.	4/12/25	Diana Bolaños

PEI-087 Mercury - Corporacion Autonoma del Cauca-CRC - NSI Lab Solutions/WP-312

TNI Analyte	Analyte	TNI Method Code	TNI Tech. Code	Method Description	Reported Value	Study Mean	Assigned Value	Units	Standard Deviation	Acceptance Limits	Z-Score	Evaluation	Analysis Date	Analyst's Name
1095	Mercury	n/a	Absorcion atomica	EPA 7473 DMA80	5.00	5.09	5.40	ug/L	0.120	3.78 to 7.02	0.750	ACCEPT.	4/12/26	Anlly Muñoz

Assigned Values

All assigned values are established in a manner compliant with the current TNI FOT for Non-Potable Water. With the exception of TDS and Specific Conductance assigned values are equal to the analytically verified gravimetric true value of the PT sample. For TDS and Specific Conductance, the assigned value is set at the robust study mean.

Accuracy/Traceability/Uncertainty

All assigned values are analytically verified for formulation accuracy prior to shipment. A total of 10 randomly chosen samples are taken from the production run and analyzed against NIST SRMs or CRMs. Traceability to SI is established through microbalance calibration with NIST traceable test masses. The expanded uncertainty at 95% CI with K=2 of each assigned value is available upon request and is typically <0.50%.

Batch Homogeneity

Each individual PT sample batch is thoroughly mixed in production and guaranteed to be homogeneous. Homogeneity is verified analytically according to in-house SOP.

Stability

Each analyte has been verified stable through the end of the PT study by either long term monitoring or study closing stability testing.

Acceptance Limits

Acceptance limits are set according to current TNI limits. Where no limits are set by TNI, limits are set to ±3 standard deviations around the study mean after outlier correction.

Accredited Analytes

All analytes are included under our ISO 17043/TNI scope of accreditation (Certificate #: AP-1693-1) unless otherwise noted with an asterisk (*).

Z-Scores

Z-Scores have been added to our reports for informational purposes. The z-score is an internationally recognized PT grading criterion where any z-score <3 is considered an acceptable evaluation. $z = (X - \mu)/\sigma$ after outlier rejection where X is the reported value, μ is the study mean and σ is the study standard deviation. It should be noted that the overall evaluations continue to be determined in a manner conforming with the current TNI criteria.

PT Study Summary

To view a summary of the PT study results, please see Study Summary Report available in our PT Datalink at www.nsilabsolutions.com.

* The study mean and standard deviation are presented after outlier correction and are based upon pooled reported results without consideration for analytical technology.

Reviewed/Approved By: Juentasha Jonestes Date: 01/05/2025

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Should you disagree with any element of this PT report, please submit your complaint to nsilabsolutions@antylia.com. Include the study number, your contact information, NSI Labcode, and the nature of your disagreement. An NSI Lab Solutions representative will contact you within 48 hours.

Ensayos de Aptitud ielab

Agua Residual: Físico-químico 2025 - Ronda III - Noviembre

Código Participante: 8114

Informe personalizado

Informe personalizado

En este informe personalizado se muestra un resumen de los resultados remitidos y la eficacia obtenida por su laboratorio. En el informe general puede encontrar más detalles referentes a esta ronda.

Toda la información sobre el tipo de muestras, analitos, y el análisis de resultados se puede consultar en el informe general de ronda, así como el resto de información técnica. El informe general es la versión oficial/autorizada.

Si usted tiene alguna duda sobre sus resultados, por favor contacte con nosotros.

Código participante: 8114

Parámetro	X1	X2	X3	x_i	*s*	z score	*p*	Valor Consenso	SDPA	Devest. robusta	Incertidumbre
Amonio mg NH4+/L	0.1	0.1	0.1	0.1	0.00	-12.0	72	75.9	6.33	7.48	0.88
Arsénico mg/L							41	0.46	0.082	0.036	0.006
Boro mg/L							35	0.93	0.150	0.098	0.017
Conductividad a 20ºC µS/cm							74	2295	298.4	77.9	9.1
Conductividad a 25ºC µS/cm	2552	2550	2551	2551.0	1.00	0.0	78	2543.6	330.66	65.09	7.37
DBO5 mg/L	230	232	216	226	8.7	0.8	71	196	37.3	33.9	4.0
DQO mg/L	2312	2337	2277	2309	30.1	-0.1	82	2338	220.6	126.3	13.9
Estaño mg/L							20	0.51	0.091	0.082	0.018
Hierro mg/L	5.2	5.3	5.3	5.27	0.058	0.3	48	5.10	0.639	0.553	0.080
Nitrogeno Kjeldahl mg/L							43	154	11.5	8.2	1.3
Nitrogeno total mg/L	24.9	24.9	24.9	24.9	0.00						
pH UpH	6.79	6.8	6.82	6.8	0.02	-1.2	94	7.0	0.20	0.12	0.01
Plomo mg/L							45	0.34	0.064	0.028	0.004
Sólidos suspensión mg/L	220	220	213	218	4.0	-2.5	75	290	28.7	36.6	4.2
Talio mg/L							20	0.61	0.106	0.063	0.014

SDPA: desviación estándar para la evaluación de la aptitud

CWA - Non-Potable Water
FINAL SUPPLEMENTAL Performance Evaluation Report
NSI Laboratory Supplemental Proficiency Testing Program
Study PT Express - Shipped: 11/17/2025 - Closed: 12/02/2025 - Reports Printed On: 12/03/2025
Participant USEPA Labcode: Not Provided

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QCI-192B Dissolved Oxygen - Corporacion Autonoma del Cauca-CRC - NSI Lab Solutions/WP-PTX7004

TNI Analyte	Analyte	TNI Method Code	TNI Tech. Code	Method Description	Reported Value	Assigned Value	Units	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
1880	Dissolved Oxygen	20025405	Other	SM 4500-O G 24th ED 2023	8.10	7.84	mg/L	4.96 to 10.7	ACCEPT.	1/12/25	Mauricio Vidal Llanten

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Reviewed/Approved By: Date: 12/03/2025

Hunter Fazler, Quality Lead

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Performance Summary Report

Australian Government
National Measurement Institute

AQA 25-57 Mercury in Sediment

Lab Code 29

Sample	Analyte	Sample No S1 Sediment Assigned Value	Result	Unit	PCV (%)	z-Score	En-Score
S1	Hg	2.44 ± 0.13	2.84 ± 0.08	mg/kg	15	1.09	**2.62**

0 Analytes not reported

Analyte Measurement

1 Numerical results reported

1 |z-Score| $\leq$ 2.0 (acceptable)

0 2.0 < |z-Score| < 3.0 (questionable)

0 |z-Score| ≥ 3.0 (unacceptable)

0 |En-Score| < 1.0 (acceptable)

1 |En-Score| ≥ 1.0 (unacceptable)

Only the analytes tested for by the participant have been included in this report. This Performance Summary Report should be read in conjunction with the associated Final Report. NR = Not Reported; NA = Not Applicable; PCV = Performance Coefficient of Variation.

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