

EPA CLP Stage 3 Deliverable

Demo Environmental Laboratory · DEMO-CERT-001

CLEARLINE

SDG: CLE-2026-SDG-0142 · Forms I–XV-IN · Per CLP SOM02.4

Stage 3 adds calibration documentation: all Stage 2A content plus Initial Calibration, CCV, and GC/MS Tune.

Form II-IN (Part 1) · Initial Calibration — Zinc (EPA 6020B ICP-MS)

Standard	True (µg/L)	Response (cps)	Predicted	%Diff
ICAL-1 (blank)	0.0	1,240	0.0	—
ICAL-2	5.0	62,450	5.02	0.4%
ICAL-3	50.0	624,150	50.1	0.2%
ICAL-4	500	6,241,500	500.4	0.08%
ICAL-5 (high)	5,000	62,485,200	5,001	0.02%

Curve fit: Linear · $r^2 = 0.99998$ (criterion ≥ 0.998) ✓ · Slope: 12,496.4 · Intercept: 1,240 cps · Date: 2026-06-16 07:14 · Analyst: mvasquez

Form II-IN (Part 2) · Continuing Calibration Verification (CCV)

CCV #	Time	Analyte	True	Found	%R	Limits	Pass
CCV-1	09:42	Zinc	100	98.2	98.2%	90–110%	✓
CCV-1	09:42	Lead	100	101.4	101.4%	90–110%	✓
CCV-2	11:18	Zinc	100	99.6	99.6%	90–110%	✓
CCV-2	11:18	Lead	100	100.1	100.1%	90–110%	✓
CCV-3	13:55	Zinc	100	97.9	97.9%	90–110%	✓

Form II-IN (Part 3) · Initial & Continuing Calibration Blanks

Blank Type	Time	Zn (µg/L)	Pb (µg/L)	Cd (µg/L)	Criterion	Pass
ICB	07:24	< 0.5	< 0.05	< 0.05	< CRDL/2	✓
CCB-1	09:44	< 0.5	< 0.05	< 0.05	< CRDL/2	✓
CCB-2	11:20	< 0.5	< 0.05	< 0.05	< CRDL/2	✓

Form XV-IN · Instrument Tune (ICP-MS)

Mass	Element	Resolution (amu)	%RSD	Criterion	Pass
9	Be	0.75	2.1%	< 5%	✓
59	Co	0.78	1.4%	< 5%	✓
89	Y	0.76	1.8%	< 5%	✓
205	Tl	0.79	2.6%	< 5%	✓

Instrument: Agilent 7900 ICP-MS · Tune date: 2026-06-16 06:42 · Operator: mvasquez · Tune file: ZN_CAL_20260616.tune

Interference Check Sample (ICS-A / ICS-AB)

Sample	Analyte	True	Found	%R	Limits	Pass
ICS-A	Zinc	500	495	99.0%	80–120%	✓
ICS-AB	Zinc	500	504	100.8%	80–120%	✓

Analyst:
M. Vasquez · 2026-06-16 14:30

QA Manager:
K. Patel · 2026-06-16 14:32

Laboratory Director:
