

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: LOD-LOQ-MDL Study
Client Sample ID: LOD-MDL-WATER-04-QT3-2025
Lab Sample ID: Q2893-10
Level (low/med): low

Date Collected: 08/18/25
Date Received: 08/18/25
SDG No.: Q2893
Matrix: Water
% Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	15.1	J	1	3.80	20.0	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-36-0	Antimony	0.74	J	1	0.32	2.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-38-2	Arsenic	0.83	J	1	0.14	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-39-3	Barium	3.59	J	1	0.29	10.0	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-41-7	Beryllium	0.79	J	1	0.26	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-43-9	Cadmium	0.82	J	1	0.14	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-70-2	Calcium	91.5	U	1	91.5	500	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-47-3	Chromium	0.52	J	1	0.047	2.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-48-4	Cobalt	0.74	J	1	0.050	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-50-8	Copper	1.41	J	1	0.65	2.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7439-89-6	Iron	39.6	J	1	1.96	50.0	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7439-92-1	Lead	0.68	J	1	0.27	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7439-95-4	Magnesium	73.6	J	1	20.0	500	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7439-96-5	Manganese	1.44		1	0.19	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7439-98-7	Molybdenum	0.68	J	1	0.67	5.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-02-0	Nickel	1.04		1	0.15	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-09-7	Potassium	46.4	J	1	23.8	500	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7782-49-2	Selenium	2.86	U	1	2.86	5.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-22-4	Silver	0.74	J	1	0.15	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-23-5	Sodium	107	U	1	107	500	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-28-0	Thallium	0.66	J	1	0.11	1.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-31-5	Tin	0.70	J	1	0.35	5.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-32-6	Titanium	0.71	J	1	0.59	5.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-62-2	Vanadium	0.74	J	1	0.11	5.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8
7440-66-6	Zinc	1.54	J	1	0.62	5.00	ug/L	08/15/25 09:20	08/25/25 18:35	200.8	M200.8

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits