

Utilities Department Laboratory 289 N Figueroa Avenue, Yuma, AZ 85364 (928) 373-4596

Samples for the annual inorganic analyses are collected each January.

Definitions

Primary Inorganic Chemicals – Are chemicals, mainly metals, that the Environmental Protection Agency (EPA) has determined can cause health effects if present at the maximum contaminant level (MCL) over a period of time.

Secondary Inorganic Chemicals – No standards have been set by the EPA for these chemicals at this time. These are considered to be mainly of esthetic interest and do not present a health concern.

MCL – Maximum Contaminant Level. The maximum permissible level for a contaminant in water that is delivered to any user of a water system.

Contaminant – Any physical, chemical, biological, microbiological or radiological substance or matter in water.

- **MDL PQL MRL RL** Minimum detection level practical quantitation level minimum reporting level reporting level. The lowest measurable quantity of a contaminant that current laboratory instruments or technology can measure.
- < -- This symbol indicates "less than" the number that appears to the right of it.
- $\mu g/l$ micrograms per liter or parts per billion (ppb). Divide by 1000 to convert $\mu g/l$ to mg/l.
- **mg/l** milligrams per liter or parts per million (ppm).
- **ND** Non-detectable. Rather than claiming a contaminant does not exist or is zero (0), laboratories report a contaminant is "non-detectable," and report the result as less than (<) the reporting level for that particular contaminant.

Analysis Method – Are numbers that identify the specific procedure that was used to test for the contaminant.

Contaminant Code – Identifies the contaminant with a number, mainly for computer/data tracking by the Arizona Department of Environmental Quality.



*Contaminants without MCL

DWAR 2IN: Revised 07/2019

For questions go to:

DRINKING WATER ANALYSIS REPORTING FORM INORGANIC CHEMICAL (IOCs)

*** Entry Point to the Distribution System (EPDS) Only ***

*** PUBLIC WATER SYSTEM INFORMATION ***

>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

AZ0414024		City of Yuma
PWS ID Number		PWS Name
01/09/2024	09:53	Leah Dennis
Sample Date	Sample Time (24HR CLOCK)	Owner/Contact Person
leah.dennis@yumaaz.gov		928-373-4596
Owner/Contact Email Addre	ess	Owner/Contact Phone Number
SAMPLE TYPE Compliance Monitoring		For MCL or Composite Level Sample Exceedance Original Violation Specimen Number
SAMPLE COLLECTION POI Entry Point to the Distrib		SAMPLE TYPE □ Confirmation - or - □ Confirmation Composite

*** INORGANIC CHEMICAL ANALYSIS ***

>>> TO BE COMPLETED BY LABORATORY PERSONNEL <<<

Analysis		Reporting	Contaminant	Cont.	Analysis		Exceeds	Exceeds
Method	MCL	Limit	Name	Code	Run Date	Result	MCL	Trigger Limit
200.8	0.010	0.005	Arsenic	1005	01/11/24 18:05	0.0011		
200.8	2	1	Barium	1010	01/11/24 18:05	0.13		
200.8	0.005	0.0025	Cadmium	1015	01/11/24 18:05	<0.0005		
200.8	0.1	0.05	Chromium	1020	01/11/24 18:05	<0.001		
SM 4500 F C	4	0.5	Fluoride	1025	01/12/24 20:42	0.42		
200.8	0.002	0.001	Mercury	1035	01/11/24 18:05	<0.0002		
300.0	10	2.5	Nitrate (as N)	1040	01/10/24 22:38	0.31		☐ (5 mg/L)
300.0	1	0.25	Nitrite (as N)	1041	01/10/24 22:38	<0.050		☐ (0.5 mg/L)
200.8	0.05	0.025	Selenium	1045	01/11/24 18:05	<0.005		
200.8	0.006	0.003	Antimony	1074	01/11/24 18:05	<0.001		
200.8	0.004	0.002	Beryllium	1075	01/11/24 18:05	<0.001		
335.4	0.2	0.1	Cyanide	1024	01/18/24 18:10	<0.0050		
200.8	No MCL	0.05	Nickel*	1036	01/11/24 18:05	<0.005		
200.8	0.002	0.001	Thallium	1085	01/11/24 18:05	<0.001		
200.7	No MCL	10	Sodium*	1052	01/16/24 17:51	140		

*** LABORATORY INFORMATION ***

>>> TO BE COMPLETED BY LABORATORY PERSONNEL <<<

380-78005-1							
Specimen Number	er						
	Commen	t					
Lab ID Number AZ0833 Lab Contact, Printed Name		Lab Name	Eurofins Eaton Analytical Pomona		Phone Number	(626) 386-1100	
		Thomas French		Authorized S	ignature	Rom D. Le	
PWS Notification	Date		PWS Person Notified				
All units must be reported milligrams per liter (mg/L)		Submit completed form to: EMAIL: WQD Compliance	e Data@azdeq.gov -or-	MAIL: ADEQ Wat	ter Quality Compliance Data	a Unit (MC 5415B-1),	

azdeq.gov/DWComplianceAssistance

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1110 W. Washington St., Phoenix, AZ 85007.

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1/25/2024

Client Sample Results

Client: City of Yuma Job ID: 380-78005-1

Project/Site: Yuma City of

Client Sample ID: EPDS001 Main Street Water Treatment Plant

Lab Sample ID: 380-78005-1

Date Collected: 01/09/24 09:53 **Matrix: Drinking Water** Date Received: 01/10/24 11:30

Analyte	romatograp Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	160		0.50	mg/L		Порагоа	01/10/24 22:38	
Nitrate as N	0.31		0.050	mg/L			01/10/24 22:38	
Nitrite as N	ND		0.050	mg/L			01/10/24 22:38	
Sulfate	330		0.25	mg/L			01/10/24 22:38	
Sunate	330		0.23	IIIg/L			01/10/24 22.30	
Method: EPA 300.0 - Nitrogen, Nitrat	e-Nitrite							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Nitrate Nitrite as N	0.31	T5	0.050	mg/L			01/10/24 22:38	
Method: EPA 200.7 - Metals (ICP)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	96		1.0	mg/L			01/16/24 17:51	
Magnesium	35		0.10	mg/L			01/16/24 17:51	
Potassium	5.9	T5	1.0	mg/L			01/16/24 17:51	
Sodium	140		1.0	mg/L			01/16/24 17:51	
Iron	ND		0.010	mg/L			01/16/24 17:51	
Silica	9.1		0.43	mg/L			01/16/24 17:51	
-	5		55	9/ =			0.7.1072.1.1.10.1	
Method: EPA 200.8 - Mercury (ICP/M Analyte	- T	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Hg	ND	Quanner	0.20	ug/L		Frepareu	01/11/24 18:05	DII Fa
-				J				
Method: EPA 200.8 - Metals (ICP/MS					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Aluminum	ND		20	ug/L			01/11/24 18:05	
Antimony	ND		1.0	ug/L			01/11/24 18:05	
Barium	130		2.0	ug/L			01/11/24 18:05	
Beryllium	ND		1.0	ug/L			01/11/24 18:05	
Cadmium	ND		0.50	ug/L			01/11/24 18:05	
Chromium	ND		1.0	ug/L			01/11/24 18:05	
Copper	ND		2.0	ug/L			01/11/24 18:05	
Lead	ND		0.50	ug/L			01/11/24 18:05	
Manganese	ND		2.0	ug/L			01/11/24 18:05	
Nickel	ND		5.0	ug/L			01/11/24 18:05	
Selenium	ND		5.0	ug/L			01/11/24 18:05	
Silver	ND		0.50	ug/L			01/11/24 18:05	
Thallium	ND		1.0	ug/L			01/11/24 18:05	
Zinc	ND		20	ug/L			01/11/24 18:05	
Arsenic	1.1		1.0	ug/L			01/11/24 18:05	
Method: SM 2340B - Total Hardness	(as CaCO3) by calculati	on					
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Hardness (as CaCO3)	380		3.0	mg/L			01/17/24 22:51	
Calcium hardness as CaCO3	240		2.5	mg/L			01/17/24 22:51	
Magnesium hardness as calcium	140		0.80	mg/L			01/17/24 22:51	
carbonate				ŭ				
General Chemistry								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total Cations (SM 1030E)		T5		meq/L			01/11/24 22:49	
				·				

Eurofins Eaton Analytical Pomona

1/25/2024

Client Sample Results

Client: City of Yuma Job ID: 380-78005-1

Project/Site: Yuma City of

Client Sample ID: EPDS001 Main Street Water Treatment Plant

Lab Sample ID: 380-78005-1 Date Collected: 01/09/24 09:53 **Matrix: Drinking Water**

Date Received: 01/10/24 11:30

General Chemistry (Continued) Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Difference (SM 1030E)	-3.2	T5		%			01/11/24 22:49	1
Anion/Cation Balance (SM 1030E)	-3.2	T5		%			01/11/24 22:49	1
K (SM 1030E)	5.9	T5		mg/L			01/11/24 22:49	1
Calculated TDS (SM 1030E)	21	T5		mg/L			01/11/24 22:49	1
TDS Ratio (SM 1030E)	45	T5		NONE			01/11/24 22:49	1
pH of CaCO3 saturation (60C) (SM 2330B)	6.7	T5		SU			01/12/24 09:33	1
Langelier Index at 60C (SM 2330B)	1.6	T5		LangSU			01/12/24 09:33	1
pH of CaCO3 saturation (25C) (SM 2330B)	7.2	T5		SU			01/12/24 09:25	1
Langelier Index at 25C (SM 2330B)	1.1	T5		LangSU			01/12/24 09:25	1
Cyanide, Total (EPA 335.4)	ND		0.0050	mg/L	C	1/17/24 19:15	01/18/24 18:10	1
Aggressive Index (EPA Agressive Index)	13	T5	0.10	SU			01/12/24 09:00	1
Alkalinity as CaCO3 (SM 2320B)	170		2.0	mg/L			01/16/24 20:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	170	T5	2.0	mg/L			01/16/24 20:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND	T5	2.0	mg/L			01/16/24 20:29	1
Langelier Index (SM 2330B)	1.0			LangSU			01/12/24 10:22	1
Specific Conductance (SM 2510B)	1400		2.0	umhos/cm			01/16/24 20:29	1
Total Dissolved Solids (SM 2540C)	920		10	mg/L			01/11/24 13:15	1
Fluoride (SM 4500 F C)	0.42		0.050	mg/L			01/12/24 20:42	1
pH (SM 4500 H+ B)	8.3	H5	0.01	SU			01/16/24 20:29	1
Methylene Blue Active Substances (SM 5540C)	ND		0.10	mg/L			01/10/24 21:16	1