



# RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations



## NEW WELL INORGANIC CHEMICAL ANALYSIS

Note: All information must be supplied for plan review credit.

WATER SYSTEM ID #: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ County: \_\_\_\_\_

Name of Water System: \_\_\_\_\_

Sample Type:  Entry Point  Non-Compliance

Location Where Collected: \_\_\_\_\_

(Note: Compliance sample MUST be collected at the entry point.)

Facility ID No. \_\_\_\_\_

Sample Point: \_\_\_\_\_

Collected By: \_\_\_\_\_  
(Please Print)

<u>Collection Date</u>	<u>Collection Time</u>
/ /	: M
(MM/DD/YY)	(Specify AM or PM)

Mail Results to (water system representative):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone #: \_\_\_\_\_

Fax#: ( ) \_\_\_\_\_

Responsible Person's email: \_\_\_\_\_

LABORATORY ID #: 3 7 7 0 1

SAMPLE UNSATISFACTORY

RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING Limit (R.R.L.)	NOT DETECTED (i.e. <R.R.L.) (X)	QUANTIFIED RESULTS	ALLOWABLE LIMIT*
0100	Turbidity	180.1	0.10 ntu	<input type="checkbox"/>	. ntu	N/A
1005	Arsenic	3113 B	0.005 mg/L	<input type="checkbox"/>	. mg/L	0.010 mg/L
1010	Barium	200.7	0.4 mg/L	<input type="checkbox"/>	. mg/L	2.000 mg/L
1015	Cadmium	200.7	0.001 mg/L	<input type="checkbox"/>	. mg/L	0.005 mg/L
1016	Calcium	200.7	1.0 mg/L	<input type="checkbox"/>	. mg/L	N/A
1017	Chloride	4500 CL-C	5.0 mg/L	<input type="checkbox"/>	. mg/L	250.0 mg/L
1020	Chromium	200.7	0.020 mg/L	<input type="checkbox"/>	. mg/L	0.100 mg/L
1022	Copper	200.7	0.050 mg/L	<input type="checkbox"/>	. mg/L	1.300 mg/L
1024	Cyanide	4500 CN-E	0.050 mg/L	<input type="checkbox"/>	. mg/L	0.200 mg/L
1025	Fluoride	4500 F-C	0.100 mg/L	<input type="checkbox"/>	. mg/L	4.000 mg/L
1028	Iron	200.7	0.060 mg/L	<input type="checkbox"/>	. mg/L	0.300 mg/L
1030	Lead	3113 B	0.003 mg/L	<input type="checkbox"/>	. mg/L	0.015 mg/L
1031	Magnesium	200.7	1.0 mg/L	<input type="checkbox"/>	. mg/L	N/A
1032	Manganese	200.7	0.010 mg/L	<input type="checkbox"/>	. mg/L	0.050 mg/L
1035	Mercury	245.1	0.0004 mg/L	<input type="checkbox"/>	. mg/L	0.002 mg/L

\* Note: Concentrations for Lead and Copper are action levels, not MCLs.

Mail Results to:

Public Water Supply Section, 1634 Mail Service Center, Raleigh, NC 27699-1634

Fax: 919.715.6637

2008

P.O. Box 473 • 106 Short Street • Kernersville, North Carolina 27284 • 336-996-2841 • Fax 336-996-0326

www.randalabs.com

1 of 2



# RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical/Process Consultations



## NEW WELL INORGANIC CHEMICAL ANALYSIS (continued)

Note: All Information must be supplied for plan review credit.

WATER SYSTEM ID #: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Facility ID No. \_\_\_\_\_

Sample Point: \_\_\_\_\_

<u>Collection Date</u>	<u>Collection Time</u>
/ /	: M
(MM/DD/YY)	(Specify AM or PM)

LABORATORY ID #: 3 7 7 0 1

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING Limit (R.R.L.)	NOT DETECTED ABOVE		QUANTIFIED RESULTS	ALLOWABLE LIMIT*
				R.R.L. (X)			
1036	Nickel	200.7	0.100 mg/L	<input type="checkbox"/>		mg/L	N/A
1040	Nitrate	4500 NO <sub>3</sub> -E	1.00 mg/L	<input type="checkbox"/>		mg/L	10.00 mg/L
1041	Nitrite	4500 NO <sub>2</sub> -B	0.10 mg/L	<input type="checkbox"/>		mg/L	1.00 mg/L
1045	Selenium	3113 B	0.010 mg/L	<input type="checkbox"/>		mg/L	0.050 mg/L
1050	Silver	200.7	0.05 mg/L	<input type="checkbox"/>		mg/L	0.100 mg/L
1052	Sodium	200.7	1.0 mg/L	<input type="checkbox"/>		mg/L	N/A
1055	Sulfate	4500 SO <sub>4</sub> -E	10.0 mg/L	<input type="checkbox"/>		mg/L	250.0 mg/L
1068	Acidity	2310 B	1.0 mg/L	<input type="checkbox"/>		mg/L	N/A
1074	Antimony	3113 B	0.003 mg/L	<input type="checkbox"/>		mg/L	0.006 mg/L
1075	Beryllium	200.7	0.002 mg/L	<input type="checkbox"/>		mg/L	0.004 mg/L
1085	Thallium	200.9	0.001 mg/L	<input type="checkbox"/>		mg/L	0.002 mg/L
1095	Zinc	200.7	1.0 mg/L	<input type="checkbox"/>		mg/L	5.0 mg/L
1905	Color	2120 B	5 mg/L	<input type="checkbox"/>		units	15 units
1915	Total Hardness	2340 C	1.0 mg/L	<input type="checkbox"/>		mg/L	N/A
1925	pH	4500 H+B	N/A	N/A		units	6.5 - 8.5 units
1927	Alkalinity	2320 B	1.0 mg/L	<input type="checkbox"/>		mg/L	N/A
1930	Total Dissolved Solids	2540 C	10.0 mg/L	<input type="checkbox"/>		mg/L	500.0 mg/L

\* Note: Concentrations for Lead and Copper are action levels, not MCLs.

ANALYSES BEGUN:	DATE:	TIME:
	/ / (MM/DD/YY)	: M (Specify AM or PM)
ANALYSES COMPLETED:	DATE:	TIME:
	/ / (MM/DD/YY)	: M (Specify AM or PM)

Laboratory Log #: \_\_\_\_\_

Certified By: \_\_\_\_\_  
(Print and sign name)

COMMENTS: \_\_\_\_\_

Mail Results to:  
Public Water Supply Section, 1634 Mail  
Service Center, Raleigh, NC 27699-1634  
Fax: 919.715.6637

2008

2 of 2

## Instructions

### NEW WELL – INORGANIC CHEMICALS

1. THE CLIENT IS RESPONSIBLE FOR COMPLETING ALL INFORMATION ABOVE THE DOUBLE LINE. Failure to complete all the information may result in rejection of the samples. Use a typewriter or a ball point pen. Please write legibly if a typewriter is not available.
2. The sample must be collected in bottle supplied by this laboratory. The samples collected for metals analysis should be preserved with nitric acid ( $\text{HNO}_3$ ) to  $\text{pH} < 2$ . If  $\text{HNO}_3$  cannot be used because of shipping restrictions, immediately ship the sample to the laboratory at ambient temperature. Upon arrival at the laboratory, the sample must be acidified with concentrated  $\text{HNO}_3$  to  $\text{pH} < 2$  and held for at least sixteen (16) hours before analysis. Samples collected for the analytes other than metals must be shipped on ice. All the inorganic analytes other than metals must be kept at  $4.0^\circ\text{C}$ .
3. The samples must be collected from the well tap. **Do not flame the faucet before collecting this sample.** Let the water run from the tap for five (5) minutes to clear the well of stale water. Divert the excess water away from the well area to prevent contamination by infiltration around the well closing. Fill each supplied sample container to within approximately one inch of the top leaving an air space, then cap the container securely.
4. Place the sample and completed collection form in the shipping container. Forward the sample to laboratory immediately after collection.
5. After the samples are analyzed, regulations require that the laboratory mail the results of all compliance samples to the Public Water Supply Section (Attention: Plan Review), 1634 Mail Service Center, Raleigh, NC 27699-1634. A copy will be sent to the client, and the client shall retain the copy as a permanent record. **Note:** New well inorganic analysis results will not be considered as compliance samples unless the client requests (in writing) that they be used as such and also submits a copy of the results to Public Water Supply Section, Compliance Services Branch, (Attention: Inorganics Rule-Manager), 1634 Mail Service Center, Raleigh, NC 27699-1634.
6. If the form should be returned to the client marked "**Sample Unsatisfactory**," this means another sample will have to be collected. The COMMENTS section on the front of the form will give the reason.