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**FAX TRANSMITTAL SHEET**

**DATE:** September 18, 2015

**TO:** Laboratory Director and QA Manager

**FROM:** Steven D. Baker, Office Chief  
Laboratory Licensure and Certification

**Subject:** Information Update # 122

**Pages:** 4 (including cover)

**NOTE:** If any of the pages are missing, please call (480) 284-6869 or (602) 364-0720.

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***Prabha Acharya at (480) 284-6869***

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***Health and Wellness for all Arizonans***



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## Information Update

September 18, 2015

Update # 122

### 1. Hexavalent Chromium Holding Times:

#### a. Drinking Water:

According to Glynda Smith of USEPA, hexavalent chromium is not subject to a National Primary Drinking Water Regulation. Occurrence data is being collected at this time under the 3rd Unregulated Contaminant Monitoring Rule (UCMR) and the analyses are being performed using EPA Method 218.7. If properly preserved as described in Method 218.7, drinking water samples can be held up to 14 days.

#### b. Wastewater

We have copied below the response from Lemuel Walker of USEPA, regarding wastewater:

*Here is the eCFR link to CFR Part 136.3: <http://www.ecfr.gov/cgi-bin/text-idx?SID=273c4b46dc758fb718f54d553fc040d1&mc=true&node=pt40.23.136&rgn=div5#se40.23.136.13>*

### Hexavalent Chromium

*Table II—Required Containers, Preservation Techniques, and Holding Times*

<i>Parameter number/name</i>	<i>Container<sup>1</sup></i>	<i>Preservation<sup>2,3</sup></i>	<i>Maximum holding time<sup>4</sup></i>
<i>Table IB—Metals:<sup>7</sup></i>			
<i>18. Chromium VI</i>	<i>P, FP, G</i>	<i>Cool, ≤6 °C<sup>18</sup>, pH = 9.3-9.7<sup>20</sup></i>	<i>28 days.</i>

<sup>20</sup>To achieve the 28-day holding time, use the ammonium sulfate buffer solution specified in EPA Method 218.6. The allowance in this footnote supersedes preservation and holding time requirements in the approved hexavalent chromium methods, unless this supersession would compromise the measurement, in which case requirements in the method must be followed.

Additional Q&As for hexavalent chromium can be found on our webpage:  
<http://water.epa.gov/scitech/methods/cwa/questions-cr6.cfm>

Excerpt from Table IB list of approved methods:

TABLE IB—LIST OF APPROVED INORGANIC TEST PROCEDURES

Parameter	Methodology <sup>58</sup>	EPA <sup>52</sup>	Standard methods	ASTM	USGS/AOAC/Other
18. Chromium VI dissolved, mg/L	0.45-micron Filtration followed by any of the following:				
	AA chelation-extraction		3111 C-1999		I-1232-85. <sup>2</sup>
	Ion Chromatography	218.6, Rev. 3.3 (1994)	3500-Cr C-2009	D5257-03	993.23.
	Colorimetric (Diphenyl-carbazide)		3500-Cr B-2009	D1687-02(07) (A)	I-1230-85. <sup>2</sup>

2. PCBs Holding Time in Soils and Oils:

MICE Response:

*Although PCB hold times are not formally defined in SW-846 Chapter 4, many laboratories will default to semivolatile hold times (7 days for water samples, 14 days for soils & oils). While this may be more of a burden on the laboratories, it is a common conservative practice as the hold times are not formally defined in the SW-846 methods for PCBs. Given that soils and transformer oils may be even more stable than wastewaters, the PCB hold times listed in the Methods Update Rule for waste waters should also work for soils and oils. Therefore, if a project specific QAPP or SAP for the project at hand doesn't exist or doesn't specify a hold time, defaulting to the 5/8/2012 holding time guidance in the MUR would be advisable. Under this guidance, the samples will most likely be analyzed before holding time is an issue.*

**NOTE:** ADHS will accept the 5/8/2012 holding time guidance given in the MUR which is one year until extraction, one year after extraction.

3. Instrument Performance Check (IPC) Solution

Method 200.7, Revision 4.4, Section 9.3.4 states:

*Analysis of the IPC solution immediately following calibration must verify that the instrument is within ±5% of calibration with a relative standard deviation <3% from replicate integrations ≥4.*

Our Office requires 4 or more of replicate integrations as stated in the method to determine the relative standard deviation of <3%. If your laboratory would like to analyze <4 replicates, our Office requires that your laboratory provide us a letter from EPA Region IX that <4 replicates are acceptable to determine the relative standard deviation of <3%, we will then accept it.

4. **Director Approvals:**

- Method ChloridioX Plus for Chlorine Dioxide and Chlorite (field method)
- Method 1623.1 Cryptosporidium & Giardia in Water by Filtration/IMS/FA
- Haloacetic Acids by EPA Method 557, Version 1.0, September 2009
- Gross alpha and Beta in Soil by EPA Method 9310
- Radium 226 in Soil by EPA method 9315
- Radium 228 in Soil by EPA Method 9320
- Cyanide by Kelada-01, Revision 1.2, August 2001

5. Please contact Prabha Acharya @ (480) 284-6869/ (602) 364-0720 or [acharyp@azdhs.gov](mailto:acharyp@azdhs.gov) for any technical or method related questions. The earlier Information Updates can be accessed @ <http://www.azdhs.gov/lab/license/resources/updates.htm>