



Division of Public Health Services

Public Health Preparedness Services

Bureau of State Laboratory Services

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JANICE K. BREWER, GOVERNOR
WILL HUMBLE, INTERIM DIRECTOR

FAX TRANSMITTAL SHEET

DATE: January 06, 2010

TO: Laboratory Director and QA Manager

FROM: Steven D. Baker, Assistant Bureau Chief

State Laboratory Services

Subject: Information Update #104

PAGES: 4 (including cover)

NOTE: If any of the pages are missing, please call 1-800-952-0374, (480) 284-6869 or (602) 364-0720.

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THIS MESSAGE AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST, BY CONTACTING:

Prabha Acharya at (480) 284-6869

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Leadership for a Healthy Arizona



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Information Update

January 06, 2010

Update #104

1. **On-line Web Application:**

Office of Laboratory Licensure is in the process of setting up On-line Application System for the environmental laboratories to apply on-line. As a preparation for this process, the current methods in the ADHS Environmental Laboratory Billing Invoice System-ELBIS were reviewed in depth to verify they matched the rules and the application form. During this review, it came to our attention that several original parameters/methods that were either changed or dropped in the 12/5/06 Rule Revision remained in the billing system. ADHS assumed that the laboratories would take a note of this at the time of renewal process and make the necessary changes to their parameter list as the Office had requested. Several laboratories did not make the necessary changes during their renewal; as a result, the older parameters/methods remained in the lab's file in the ELBIS System in addition to the newer ones, thus duplicating some of the methods, mainly in the drinking water organics area.

Office of Lab Licensure is planning to correct the above errors in an individual laboratory's parameter list at the time of their license renewal. The Office will review the lab's licensed list and will make the necessary changes and send the draft list to the lab for their approval before finalizing. The lab will then be appropriately credited or billed based on the updated list. This review would verify that the updated (if needed) laboratory's parameter list is consistent with the application form on the webpage and the ADHS rules (Part C & Part E).

NOTE: It is the laboratory's responsibility to ensure that the certified parameter list is accurate and appropriately reflects the method used to analyze and report compliance samples. The laboratory's thorough review is highly encouraged.

Thank you for your support with this transition to the on-line application process.

2. **Selection of Organic Methods in Drinking Water from Part C of the Application Form:**

Fields of Testing - **Part C/** Drinking Water Parameters - **Section A** / Organic Chemistry in Drinking Water- **Section A.4** / Methods to Comply with National Primary Drinking Water Regulations - **Section A.4.a** / Additional Methods and Compounds required by Other Programs - **Section A.4.b**

This is to clarify the difference between Sections A.4.a and A.4.b parameter lists since the labs appear to be unsure of which ones to select for certification of organics methods in drinking water:

- A. When a method from Section A.4.a is selected, only the primary compounds (the compounds listed corresponding to the methods in the rules and application form) are certified.
- B. When a method from Section A.4.b is selected, the non-primary compounds (required for other non-NPDWR programs like UCMR, SWTR, Unregulated DW compounds) which are part of the method target list are certified.

So in order to get certified for both primary and other non-primary compounds for a DW method, both the sections A.4.a and A.4.b for that method must be selected. If you need further assistance, please contact our office.

- 3. As a reminder, please note the change made in the last rule revision - Any and all combo method fees were dropped. This includes any combo fees with multiple laboratories under one license. Therefore, all laboratories, including mobile laboratories must pay the method fees (instruments included) on their parameter list.
- 4. The following methods have been ADHS Director Approved which are posted on the web application part E, http://www.azdhs.gov/lab/license/app_parte.pdf
 - A. Hydrogen Sulfide in Wastewater by SM 4500-S²-H
 - B. Lab bench scale digestion-- EPA 625/R-92/013 – “White House Document” Environmental Regulations and Technology – Control of Pathogens and Vector Attraction in Sewage Revised July 2003, U.S. Environmental Protection Agency.
 - C. EPA Method 1681, Fecal Coliforms in Sewage Sludge (Biosolids) by MTF using A-I Medium
 - D. EPA Method 1682 Salmonella in Sludge by MSRV Medium
 - E. Mercury by SW-846 Method 7473
 - F. Method 3C – Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources
 - G. Method 25C – Determination of Non-Methane Organic Compounds (NMOC) in Landfill Gases
 - H. Compendium Methods IO-3.5 & IO-3.1, For the Preparation and Determination of Metals in Ambient Air

Any laboratory that would like to add any of the above DA methods, please provide the following, where applicable:

- A. Current SOP
- B. IDC/LOD Summary Sheets
- C. Acceptable PE study results
- D. Method Fee, as specified in Part E of the web application, http://www.azdhs.gov/lab/license/app_parte.pdf
- E. Additional instrument fee

5. Acrolein / Acrylonitrile by EPA Method 624:

Both the EPA Method 624 and the ADHS Environmental Rules specify that these compounds are for screening only, when these compounds are analyzed by Method 624 and the Rules, in addition, states that the method is not for quantitation, therefore, the final results for these compounds must be flagged something similar to:

The method used is for screening purposes only; the results reported for these compounds are estimates.

6. Just a Friendly Reminder on BOD:

When a bottle contains more than 67% of the sample after dilution, nutrients may be limited in the diluted sample and subsequently reduce biological activity. In such samples, add the nutrient, mineral, and buffer solutions (Standard Methods, 20th edition, 5210B, 3a through e) directly to individual BOD bottles at a rate of 1 mL/L (0.33 mL/300-mL bottle) or use commercially prepared solutions designed to dose the appropriate bottle size (SM5210B.4.f).

7. Please contact Prabha Acharya @ (480) 284-6869/(602) 364-0734 or acharyp@azdhs.gov for any technical or method related questions. The earlier Information Updates can be accessed @ <http://www.azdhs.gov/lab/license/tech/infoup.htm>



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JANICE K. BREWER, GOVERNOR
WILL HUMBLE, DIRECTOR

FAX TRANSMITTAL SHEET

DATE: July 16, 2010

TO: Laboratory Director and QA Manager

FROM: Steven D. Baker, Assistant Bureau Chief
State Laboratory Services

Subject: Information Update #105

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NOTE: If any of the pages are missing, please call 1-800-952-0374, (480) 284-6869 or (602) 364-0720.

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JANICE K. BREWER, GOVERNOR
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Information Update

July 16, 2010

Update #105

1. Barbara Escobar, Program Manager, has recently accepted a new and exciting position with the Pima County Laboratory as the Laboratory Director. Barbara's last day with us will be July 30, 2010. We wish Barbara well on her new journey. We are currently hoping to be able to hire a new member to join the licensure team, but in the meantime please begin directing questions and inquires to envapp@azdhs.gov or (602) 364-0720, Steve Baker, Kathryn Wangsness, Prabha Acharya or Ali Mayfield.

2. **Furlough Days:**

Laws 2010, Seventh Special Session, Chapter 3 implements a statewide government furlough program. The statewide government furlough program will involve a partial closure of state government for a specific number of days over the next two fiscal years. State employees will be on unpaid leave during such closures.

All state agencies, boards and commissions are required to participate in the statewide government furlough program, except those specifically exempted by the legislation and agency functions or services exempted by the Department of Administration. The Arizona Department of Health Services Environmental Licensure Program is not exempt.

The state designated furlough days are as follows:

FY 2011	Friday, July 23, 2010
	Friday, August 20, 2010
	Friday, September 17, 2010
	Friday, November 26, 2010
	Thursday, December 23, 2010
	Friday, June 10, 2011

On the above mentioned furlough days, our Office will be closed and we will be open the next business day. Please note that the November and December furlough days coincide with official state holidays and thus we will be closed two business days.

3. **Dissolved Sulfide Holding time:**

Mr. Lemuel Walker of EPA Wastewater program gave us the following interpretation:

The times listed in Table II at 40 CFR Part 136.3 are the maximum times that samples may be held before the start of analysis and still be considered valid (see footnote 4). Footnote 4 also states: "Samples may be held for longer periods only if the permittee or monitoring laboratory has data on file to show that, for the specific types of samples under study, the analytes are stable for the longer time, and had received a variance from the Regional Administrator under 136.3(e) so yes the analysis of the sample including the flocculation step needs to be started before the expiration of the seven day holding time unless a variance has been granted to the permittee or monitoring laboratory.

4. **EPA 548.1, Revision 1.0; Endothall:**

Some helpful hints from Dave Clift, a veteran AZ DHS Lab Chemist:

- A normal to good recovery on an extracted QC sample is 80-90%;
- Hard on the column, a couple of injections of extract will ruin the column for any other type analysis;
- If the sample is high in sulfate then the only way to complete the determination is to dilute the sample and adjust the reporting limit accordingly
- Use a +200 volt offset on the EM and tune the DFTPP with 442 as base mass.
- High amounts of calcium will result in low recoveries. Dave hasn't had a lot of success using EDTA in chelating out Ca and Mg.
- Substitute 10% sulfuric acid in methanol with 10% hydrochloric acid in methanol during the initial conditioning of Teflon disks; hydrochloric acid works much better with Teflon disks. **We are waiting for a response from EPA if this substitution of acid is acceptable.**
- Use a very low vacuum when processing the samples (gravity feed works quite well), definitely less than 10 inches of Hg. Dave typically uses much less than 5 inches of Hg vacuum. Drying the disk and filtering apparatus is critical, so a wash bottle filled with methanol is used to dry the glassware and disk before desorbing the disk.
- 183 and 155 are used as the quantifying masses. The chromatogram is not overly clean so a 30+ minute run gets rid of any background carry over from sample to sample.

5. **Wastewater Operator Training:**

ADHS in cooperation with the Arizona Department of Environmental Quality and the AZ Water Association will be offering training August 31 in Flagstaff, September 1 in Phoenix, and September 2 in Tucson. This training is designed to provide an overview of the current rules and statutes, with selected demonstration and discussion of some of the most common plant analyses, required to meet your permit requirements. It is recommended for wastewater plant owners and wastewater system operators. For more complete information, please visit our web site at <http://www.azdhs.gov/lab/license/wastewaterTreatment.htm>.

The presentations from the May/June 2010 Wastewater training are posted on the above web site.

6. The following methods have been ADHS Director Approved which are posted on the web application part E, http://www.azdhs.gov/lab/license/app_parte.pdf
- A. E.Coli by MF Two Step in Drinking Water referencing SM 9222B/9222G – 20th Edition.
 - B. Ammonia by Nesslerization in Wastewater by SM 4500-NH₃ B & C – 18th Edition
 - C. Total Kjeldahl Nitrogen by Nesslerization in Wastewater by SM 4500-N Org B, 4500-NH₃ B & C, - 18th.
 - D. Dalapon along with Haloacetic Acids in Drinking Water by EPA Method 552.3, Revision 1.0, EPA-815-B-03-002, July 2003.
Note: No additional fee is associated with the additional reporting of Dalapon if the lab is already licensed for HAA by 552.3.
 - E. Method 29 for the Determination of Metals Emissions from Stationary Sources as Listed in 40 CFR – Chapter I, Part 60. One must specify if Method 29 would be performed by CVAA, ICP or ICPMS for each particular analyte allowed by the method.
 - G. EPA Method 6020A in Solid Waste, ICPMS Determination of the 23 Elements listed in Section 1.2 of the referenced method.
Note: A laboratory must be licensed for the version 6020A **in addition or in place of** analyzing and reporting any by 6020.
 - F. 21 Additional analytes have been added to Method TO-15, January 1999, as listed below:

ANALYTE NAME	CAS#
Acetone	67-64-1
Dichlorodifluoromethane(F-12)	75-71-8
Dichlorotetrafluoroethane(F-114)	76-14-2
Isopropyl Alcohol (2-Propanol)	67-63-0
Propene (Propylene)	115-07-1
1,2,4-Trimethylbenzene	95-63-6
1,2-Dichlorobenzene	95-50-1
1,3,5-Trimethylbenzene	108-67-8
1,3-Dichlorobenzene	541-73-1
trans-1,3-Dichloropropene	542-75-6
4-Ethyltoluene	622-96-8
Bromodichloromethane	75-27-4
cis-1,2-Dichloroethene	156-59-2
Cyclohexane	110-82-7
Dibromochloromethane	124-48-1
Ethyl Acetate	141-78-6
Heptane	142-82-5
Tetrahydrofuran	109-99-9
trans-1,2-Dichloroethene	156-59-2

Trichlorofluoromethane (F-11)	75-69-4
Trichlorotrifluoroethane (F-113)	26523-64-8

Note: There is an additional fee of \$ 26.00 associated with the additional licensing and reporting of any of the analytes listed above if a lab is already licensed for TO-15.

Laboratories that would like to add any of the above DA methods, please provide the following supporting documents, where applicable:

- A. Current SOP
 - B. IDC/LOD Summary Sheets
 - C. Acceptable PE study results, if available
 - D. Method Fee, as specified in Part E of the web application,
http://www.azdhs.gov/lab/license/app_parte.pdf
 - E. Additional instrument fee
7. Please contact Prabha Acharya @ (480) 284-6869/(602) 364-0734 or acharyp@azdhs.gov for any technical or method related questions. The earlier Information Updates can be accessed @ <http://www.azdhs.gov/lab/license/tech/infoup.htm>



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FAX TRANSMITTAL SHEET

DATE: November 30, 2010

TO: Laboratory Director and QA Manager

FROM: Steven D. Baker, Assistant Bureau Chief

State Laboratory Services

Subject: Information Update #106

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NOTE: If any of the pages are missing, please call 1-800-952-0374, (480) 284-6869 or (602) 364-0720.

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Information Update

November 30, 2010

Update #106

1. Silver by EPA 200.8:

Our Office received a communication from EPA Drinking Water Program that it is required to digest all the samples when testing for silver by EPA 200.8 method.

2. The following methods were director approved:

- EPA Method 524.3, Version 1.0 in Drinking Water
- Fecal Coliform, IDEXX Colilert-18 in Wastewater (APP Permits)
- EPA/625/R-92/013, Analysis of Enteric Virus in Sewage Sludge

3. Fecal Coliform, IDEXX Colilert-18; Notification from IDEXX;

"We have the Colilert-18 insert going through Change Control right now. In the interim, we have the attached product addendum...."

The Quanti-Trays can be incubated in a 44.5C +/- 0.2 water bath."

4. Clarification from EPA on the Preservation of Bacterial samples:

Frozen samples are not acceptable. In the EPA methods, the "<10C not frozen" information can be found in the "storage temperature and handling conditions" section, which is generally section 8.1.2. Table II of 40 CFR part 136, says "cool" for the bacterial methods in Table IA and IH rather than "freeze."

5. Request for Information:

Arizona Department of Environmental Quality (ADEQ) is seeking information from the Arizona 8260 licensed labs on their current capabilities in reporting of additional compounds by 8260 method. ADEQ has a list of certain compounds, based on their current list of Soil Remediation Levels and compounds included in risk assessment that needs to be monitored. This following information will help ADEQ in determining if those additional compounds can be added when requesting 8260 on certain projects.

- The typical 8260 compounds normally reported by the lab
- The extended list of 8260 compounds reported by the lab.

Jeanene P. Hanley, Senior Risk Assessor, Arizona Dept. Environmental Quality, Tank Programs Division, Corrective Actions Section, is requesting this information for two reasons:

- To see how many and which additional compounds the labs include above/beyond the AZ list;
- To see if there are certain compounds the labs cannot report by 8260 at this time from ADEQ's list.

Please send the requested information to Jeanene P. Hanley [Hanley.Jeanene@azdeq.gov] and her contact number is (602) 771-4314. Thank you in advance.

6. **DMRQA Study 31:** This is a reminder that DMRQA 31 will have a similar time frame as that of DMRQA 30 and once we have more information we will provide an update. The dates from last year for running a Water Pollution (WP) or DMRQA proficiency sample were January 1st to July 2nd.

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