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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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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

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>